MATRIX™

Strong. Smart. Beautiful.

U7XE-01 BIKE
SERVICE MANUAL

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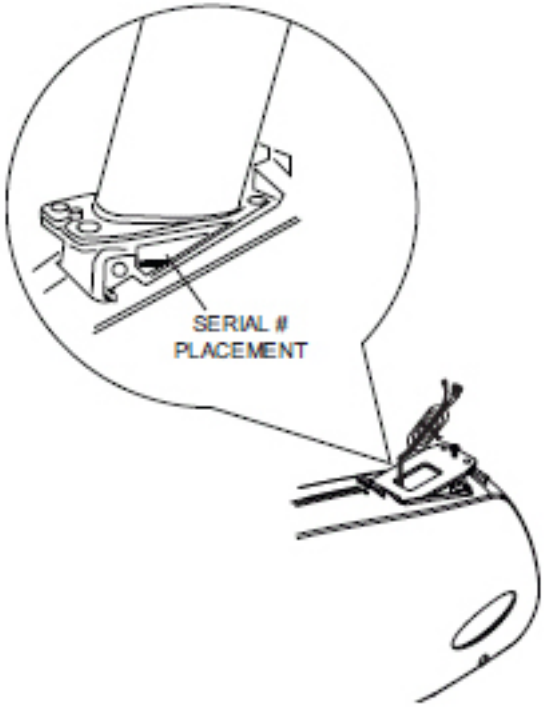
CHAPTER 1: SERIAL NUMBER LOCATION

1.1 SERIAL NUMBER LOCATION

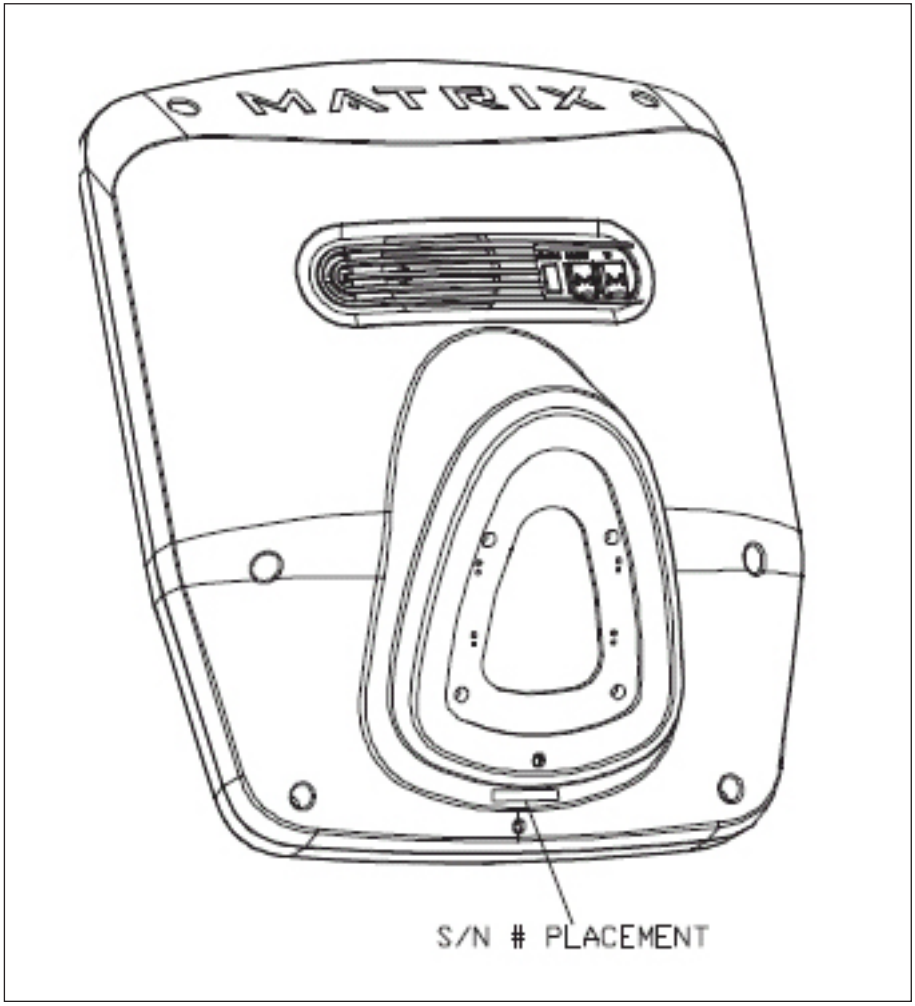


A serial number plate is located below the bottom of the console mast beneath a rubber boot. There is also a serial number tag on the middle of the main frame pointed towards the floor.

CHAPTER 1: SERIAL NUMBER LOCATION

1.1 SERIAL NUMBER LOCATION

UNIVERSAL CONSOLE SERIAL NUMBER LOCATION



CHAPTER 2: IMPORTANT SAFETY INSTRUCTIONS

2.1 READ AND SAVE THESE INSTRUCTIONS

To ensure your safety and protect the equipment, read all instructions before operating the MATRIX U7xe-01 Bike.

To ensure proper use of the Matrix U7xe-01 Bike, make sure that all users read this manual. Remind the users that before undertaking any fitness program, they should obtain complete physical examinations from their physicians. If, at any time while exercising, the user experiences dizziness, pain, or shortness of breath, nausea or feels faint, he or she must stop immediately.

**** This bike is only to be used for its intended purpose described in this manual. Do not use attachments that have not been recommended by Matrix.***

**** Never drop or insert objects into any opening. Keep hands away from moving parts. If the item cannot be reached, contact a Matrix authorized dealer for assistance.***

**** Never operate the unit if it is damaged, not working properly, when it has been dropped, or has been dropped in water.***

**** Keep hands and feet clear at all times from moving parts to avoid injury.***

**** Do not use this product outdoors, near swimming pools or in areas of high humidity.***

**** Do not operate where aerosol (spray) products are being used or when oxygen is being administered.***

**** Do not use this product in bare feet. Do not wear shoes with heels, leather soles, cleats, or spikes while exercising.***

**** Do not remove the side covers. Service should only be done by an authorized service technician.***

**** Close supervision is necessary when used near children, invalids, or disabled people.***

**** When the bike is in use, young children and pets should be kept at least 3 meters / 10 feet away.***

**** Assemble and operate the bike on a solid, level surface.***

**** Never face backward while using the Matrix U7xe-01 Bike.***

**** Use the stationary handlebars when mounting or dismounting the bike.***

**** Do not wear clothing that might catch on any moving parts of this bike.***

CAUTION! ***If you experience chest pains, nausea, dizziness, or shortness of breath, stop exercising immediately and consult your physician before continuing.***

CAUTION! ***Any changes or modifications to this equipment could void the product warranty.***

2.2 ELECTRICAL REQUIREMENTS

The Matrix U7xe-01 Bike must be AC powered. These units can be daisy chained together, up to 4 units per dedicated 15 amp circuit, using a Matrix daisy chain cord adapter (sold separately).

For your safety and for the performance of your Matrix bike, the ground on your circuits must be non looped. Please refer to NEC articles 210-21 and 210-23. Any alterations to the standard Matrix power cords will void all warranties.

GROUNDING INSTRUCTIONS:

The Matrix U7xe-01 Bike must be grounded. If it should malfunction or break down, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. The bike is equipped with a cord having an equipment grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances. If the user does not follow these grounding instructions, the user could void the Matrix limited warranty.

DANGER: Improper connection of the equipment grounding conductor can result in the risk of electric shock. Check with a qualified electrician if the user is in doubt as to whether the product is properly grounded. Do not modify the plug provided with the product if it will not fit the outlet, have a proper outlet installed by an electrician

CHAPTER 3: PREVENTATIVE MAINTENANCE

3.1 RECOMMENDED CLEANING TIPS

Preventative maintenance and daily cleaning will prolong the life and look of your MATRIX U7xe-01 Bike

Please read and follow these tips.

* Position the equipment away from direct sunlight. The intense UV light can cause discoloration on plastics.
* Locate your equipment in an area with cool temperatures and low humidity.
* Clean with a soft 100% cotton cloth.
* Clean with soap and water or other non-ammonia based all purpose cleaners.
* Wipe seats, pedals, console, heart rate grips, and the handlebar clean after each use.
* Do not pour liquids directly onto your equipment. This can cause damage to the equipment and in some cases electrocution.
* Check pedal straps weekly for wear.
* Adjust leveling feet when equipment wobbles or rocks.
* Maintain a clean area around the equipment, free from dust and dirt.

3.2 CHECK FOR DAMAGED PARTS

DO NOT use any equipment that is damaged or has worn or broken parts. Use only replacement parts supplied by Matrix Fitness Systems.

MAINTAIN LABELS AND NAMEPLATES. Do not remove labels for any reason. They contain important information. If unreadable or missing, contact Matrix Fitness Systems for a replacement at 866-693-4863 or www.matrixfitness.com.

MAINTAIN ALL EQUIPMENT. Preventative maintenance is the key to smoothly operating equipment. Equipment needs to be inspected at regular intervals. Defective components must be kept out of use until they are repaired. Ensure that any person(s) making adjustments or performing maintenance or repair of any kind is qualified to do so. Matrix Fitness Systems will provide service and maintenance training at our corporate facility upon request or in the field if proper arrangements are made.

CHAPTER 3: PREVENTATIVE MAINTENANCE

3.3 CARE AND MAINTENANCE INSTRUCTIONS

In order to maximize life span, and minimize down time, all MATRIX equipment requires regular cleaning, and maintenance items performed on a scheduled basis. This section contains detailed instructions on how to perform these items and the frequency of which they should be done. Some basic tools and supplies will be necessary to perform these tasks which include (but may not be limited to):

* Metric Allen wrenches
* #2 Phillips head screwdriver
* Adjustable wrench
* Torque wrench (capability to read foot lbs and inch lbs)
* Lint free cleaning cloths
* Teflon based spray lubricant such as "Super Lube" or other Matrix approved products.
* Mild water soluable detergent such as "Simple Green" or other Matrix approved products
* Vacuum cleaner with an extendable hose and crevasse tool attachment.

You may periodically see addendums to this document, as the Matrix Technical Support Team identifies items that require specific attention, the latest version will always be available on the Matrix web site at www.matrixfitness.com.

DAILY MAINTENANCE ITEMS

1) Look and listen for loose fasteners, unusual noises, and any other indications that the equipment may be in need of service.

2) Clean the bike before and after each use, including:
a. Use a damp, soft cloth with water or mild liquid detergent to clean all exposed surfaces. DO NOT use ammonia, chlorine, or any acid based cleaners.
b. Keep the console display free of fingerprints and salt build up caused by sweat.

WEEKLY MAINTENANCE ITEMS

1) Frequently vacuum the floor beneath the unit to prevent the accumulation of dust and dirt which can affect the smooth operation of the unit.

2) Check the pedal straps for damage.

3) Clean the grooves on the foot pedals.

MONTHLY MAINTENANCE ITEMS

1) Inspect the console, seat, pedals, and shrouds for damage.

2) Tighten the pedals onto their respective cranks using a 15 mm wrench.

3) Adjust the leveling feet if equipment rocks or wobbles.

QUARTERLY MAINTENANCE ITEMS

1) Remove the front shrouds and check the belt for damage, alignment, and proper tension.

TOUCH SCREEN CARE AND CLEANING

* The touch screen requires very little maintenance. We recommend that you periodically clean the touch screen surface with a dry soft cloth. If necessary, we recommend the usage of Alcohol or Isopropyl Alcohol for difficult stains or sanitary purposes.

* It is very important to avoid using any other chemical on the touch screen.

* Always dampen the cloth and clean the screen. Do not spray the cleaning agent on the screen itself, the drips can seep into the display or stain the bezel.

* After cleaning, make sure the surface is dry. There should not be any left over solvent to seep into the display.

* It is very important to handle the touch screen with care. Do not use excessive force when cleaning.

* Do not use any sharp materials to clean the touch screen surfaces.

* Do not use high pressure air, water, or steam to clean the touch screen surface.

CHAPTER 4: CONSOLE OVERLAY AND WORKOUT DESCRIPTION

4.1 CONSOLE DESCRIPTION

The U7xe-01 has a fully integrated touch screen display. All information required for workouts is explained on screen. Exploration of the interface is highly encouraged. The information explaining how to program for various workouts will give an explanation about the contents of each screen.

GO: One touch Start.

STOP: Ends workout and shows workout summary data.

U7XE-01 ENTERTAINMENT ZONE

iPOD®: Will take the user directly to the iPod screen to allow for iPod control and playlist selection.

VOLUME UP / DOWN: Adjusts the volume output through the headphone jack of the integrated console TV or iPod output.

NUMBER KEYPAD: Allows for easy TV channel selections.

CHANNEL UP / DOWN: Allows for channel selection.

DISPLAY MODE: Allows user to cycle through console display options, iPod, TV, or profile display.

LAST CHANNEL: Allows the user to cycle between the current channel and the previous channel viewed.

4.2 WORKOUT SETUP STEPS

To set up a workout, press the touch screen over the program you would like to use and then follow the prompts to begin your workout.

GO - Press to immediately begin a workout. Workout, resistance level, and time will automatically go to default settings. Pressing GO will not prompt user for age, weight, or level settings.

MANUAL - Manual allows the user to input more information while defining their own workout. Calorie expenditure will be more accurate when inputting information in Manual than by pressing GO.

FAT BURN - Fat burn is a level based program that is designed to help users burn fat through various resistance level changes.

ROLLING HILLS - The Rolling Hills program is a level based program that automatically adjusts the resistance level to simulate real terrain.

INTERVALS - The Intervals program is a level based program that automatically adjusts the resistance of the machine from low to high intensity settings at regular intervals.

RANDOM - Random is a level based workout that randomly adjusts the resistance of the machine.

TARGET HEART RATE - The Matrix U7xe-01 bike comes with standard digital contact heart rate sensors and are POLAR telemetry compatible. The heart rate control workout mode allows the user to program their desired heart rate zone, and the bike will automatically adjust the level based upon the user's heart rate. The heart rate zone is calculated using the following equation: (220-Age)8%=target heart rate zone. The user must wear a POLAR telemetric strap or continually hold onto the contact heart rate grips for this workout.

Locate the metal sensors on the handlebars of the bike. Notice that there are two separate pieces of metal on each grip. You must be making contact with both pieces of each grip to get an accurate heart rate reading. You can grab these sensors in any program to view your current heart rate.

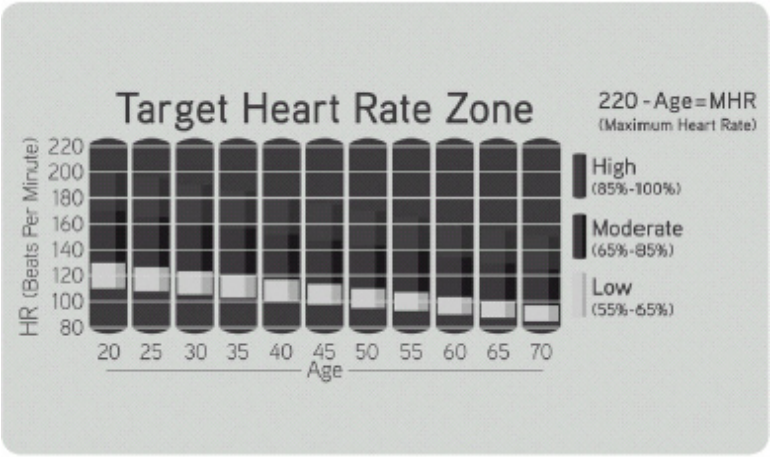
FITNESS TEST -The Cooper Fitness Test measures cardiovascular fitness and proves an estimated sub-maximal VO2 result. It is based on power output according to ACSM standards and was developed by the Cooper Institute© (www.cooperinstitute.org). User RPMs must remain between 60-80 RPM during the test. The test will end when the user can no longer maintain this speed. Use of a heart rate strap is optional but provides more data.

The test starts at a low intensity level and gradually increases in intensity (difficulty) every 2 minutes. As it increases, the user must maintain 60-80 RPM to advance to the next level. The test could take upwards of 30+ minutes for very fit individuals. Once the test ends a recovery period (cool down) will begin and the user's results are calculated and displayed. Results are based on the number of stages completed. Incline will not be adjustable during the test.

STAGE COMPLETE:

1	Well Below Average
2	Well Below Average
3	Below Average
4	Below Average
5	Average
6	Average
7	Above Average
8	Above Average
9+	Well Above Average

CONSTANT WATTS - Constant Watts is a unique program that allows you to vary your cadence or RPM and the bike's resistance level will adjust accordingly to your selected goal. The quicker you pedal, the less resistance for the goal selected.



CHAPTER 5: MANAGER MODE

5.1 MANAGER MODE OVERVIEW

The Manager's Custom Mode allows the club owner to customize the bike for the club.

1) To enter Manager Mode, press ENTER, 1, 0, 0, 1, ENTER on the lower display. Manager Mode will appear on the display (Figure A).
2) Follow the prompts to change the desired setting.
3) Press the ENTER key once the desired setting is correct to save.
4) Press HOME to return to normal operation.

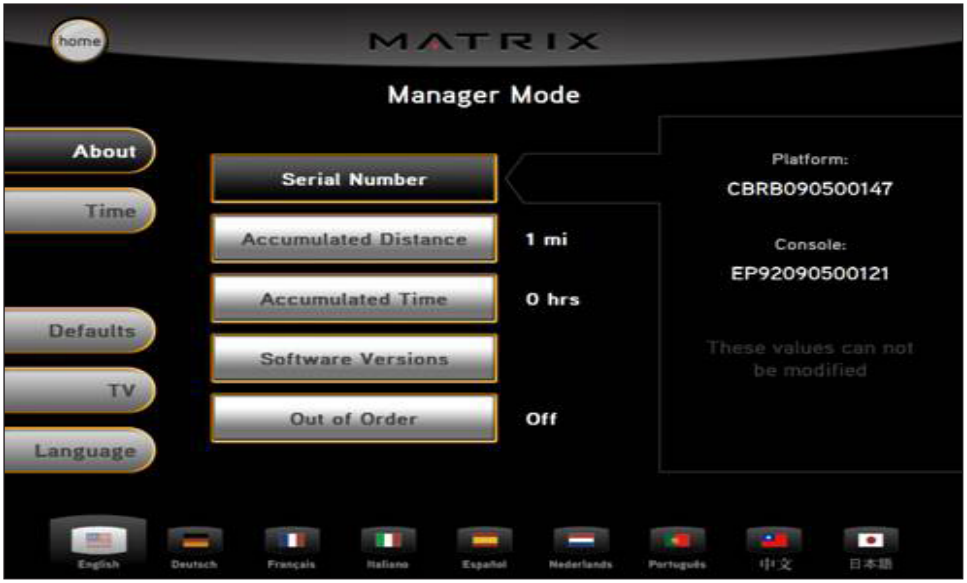
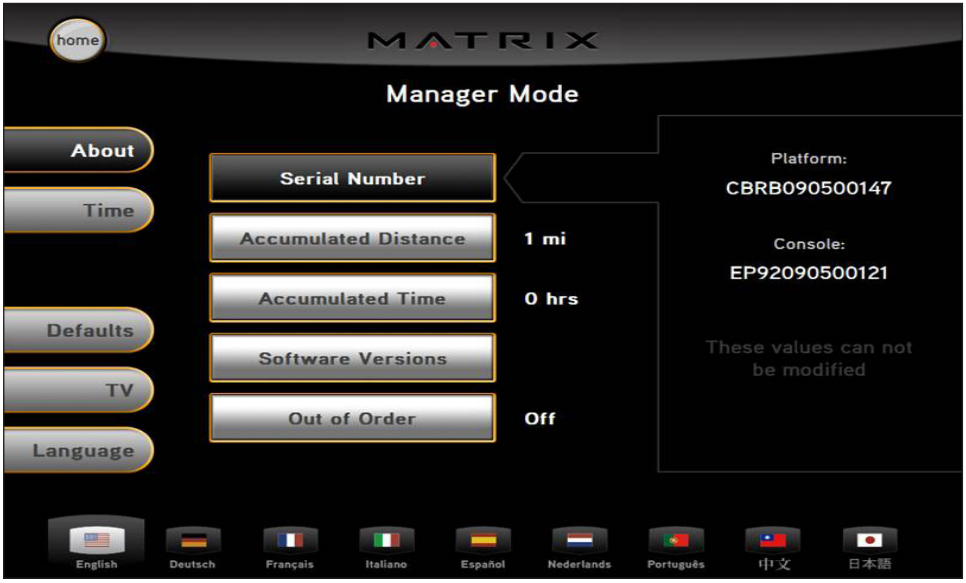


FIGURE A

5.2 MANAGER MODE - ABOUT TAB



MANAGER MODE	FUNCTION & DEFAULTS	DESCRIPTIONS	MODIFIED
About	Serial Number	This option displays the serial number of the platform and console. See Service Mode to edit the serial numbers.	Cannot be modified.
	Accumulated Distance	Total distance on the unit since production.	Cannot be modified.
	Accumulated Time	Total time on the unit since production.	Cannot be modified.
	Software Versions	Software version.	Cannot be modified.
	Out of Order Default: Off	This option allows the club to show the unit "out of order" if an error is present.	On / Off

5.3 MANAGER MODE - TIME TAB

MANAGER MODE	FUNCTION & DEFAULTS	DESCRIPTIONS	MODIFIED
Time	Maximum Time Default: 60 Minutes	This option allows the club to set the maximum workout duration limits during peak and non peak hours.	Maximum: 99 Minutes Minimum: 5 Minutes
	Default Time Default: 60 Minutes	This option controls the default program time.	Maximum: Max Time Setting Minimum: 5 Minutes
	Pause Time Default: 5 Minutes	This option controls the default pause time.	Maximum: 10 Minutes Minimum: 1 Minute

5.4 MANAGER MODE - DEFAULTS TAB

MANAGER MODE	FUNCTION & DEFAULTS	DESCRIPTION	MODIFIED
Defaults	Default Level Default: 1	This option controls the dafault program level.	Maximum: 1 Minimum: 20
	Default Age Default: 30	This option controls the default user's age used in the target HR calculations.	Maximum: 100 Minimum: 10
	Default Weight Default: 150 lbs / 68 kg	This option controls the default weight used in the calorie calculations. Displayed in pounds or kilograms.	Maximum: 400 lbs / 180 kg Minimum: 80 lbs / 36 kg
	Gender Default: Male	Setting the user as Male or Female.	Male or Female
	Key Sound	This option allows different sounds to be chosen for the keypad.	On / Off

5.5 MANAGER MODE - TV TAB

MANAGER MODE	FUNCTION & DEFAULTS	DESCRIPTIONS	MODIFIED
TV	Default Channel Default: 1	This option controls the default TV channel on start up.	Channels 1-999
	Default Volume Default: 1	This option controls the default TV volume on start up.	Maximum: 17 Minimum: 1
	Tuner Available	This option controls the default TV function.	Yes or No
	Setup	This option is used to set the TV tuner function. Press the "-: key to enter this function.	

5.6 MANAGER MODE - LANGUAGE TAB

MANAGER MODE	FUNCTION & DEFAULTS	DESCRIPTIONS	MODIFIED
Language	Select default language.	This option allows the user to select a flag for a specific language.	N/A

LANGUAGE	FLAG	UNIT
English		Mile
		Mile
		KM
German		KM
		KM

LANGUAGE	FLAG	UNIT
Spanish		KM
		KM
Dutch		KM
Italian		KM
Japanese		KM

LANGUAGE	FLAG	UNIT
Chinese		KM
		KM
Portuguese		KM
		KM
French		KM

CHAPTER 6: ENGINEERING MODE

6.1 ENGINEERING MODE OVERVIEW

The Engineering Mode allows the club owner to keep track of the technical settings and error history for the bike.

1) To enter Engineering Mode, press ENTER, 2, 0, 0, 1, ENTER on the lower display. Engineering Mode will appear on the display (Figure A).

2) Follow the prompts to change the desired setting.

3) Press the ENTER key once the desired setting is correct to save.

4) Press HOME to return to normal operation.

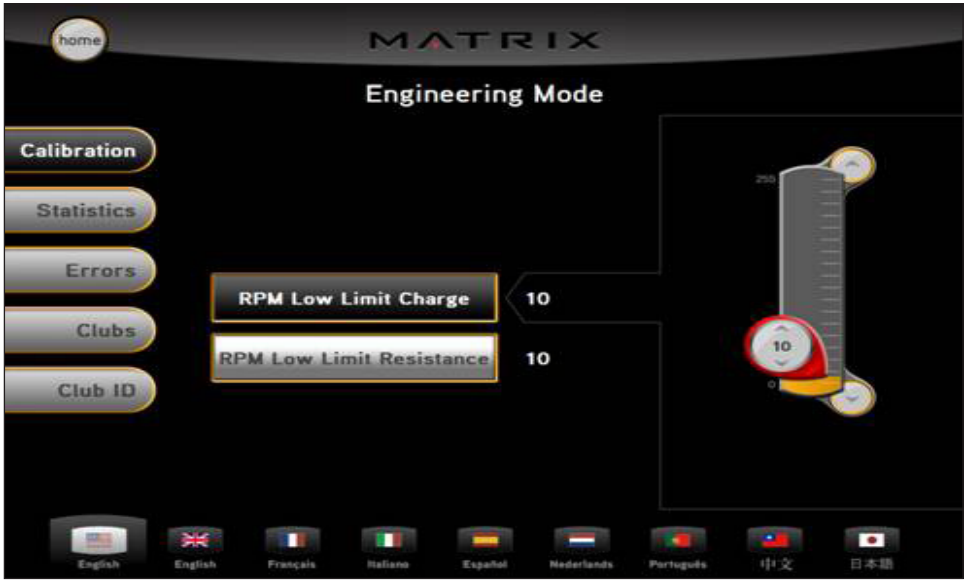
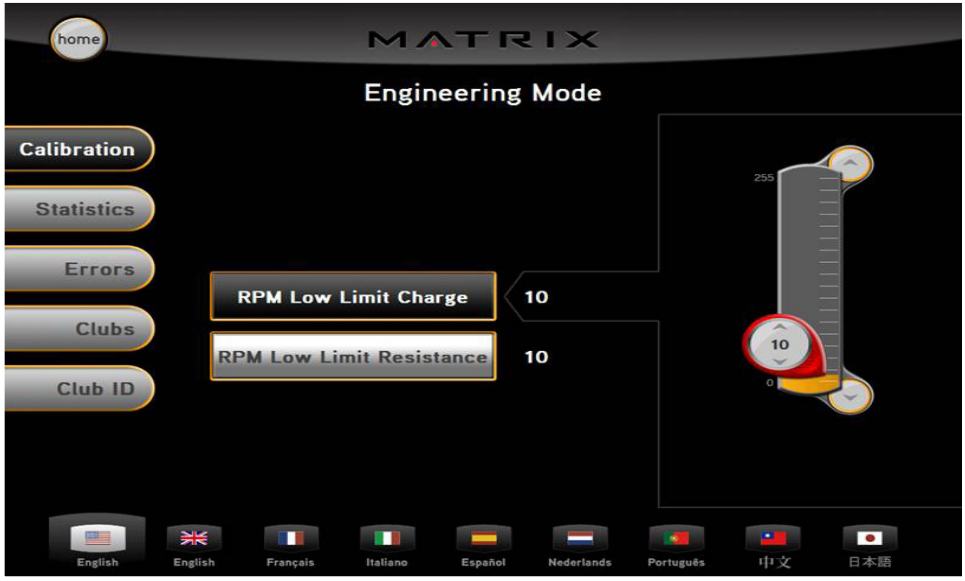


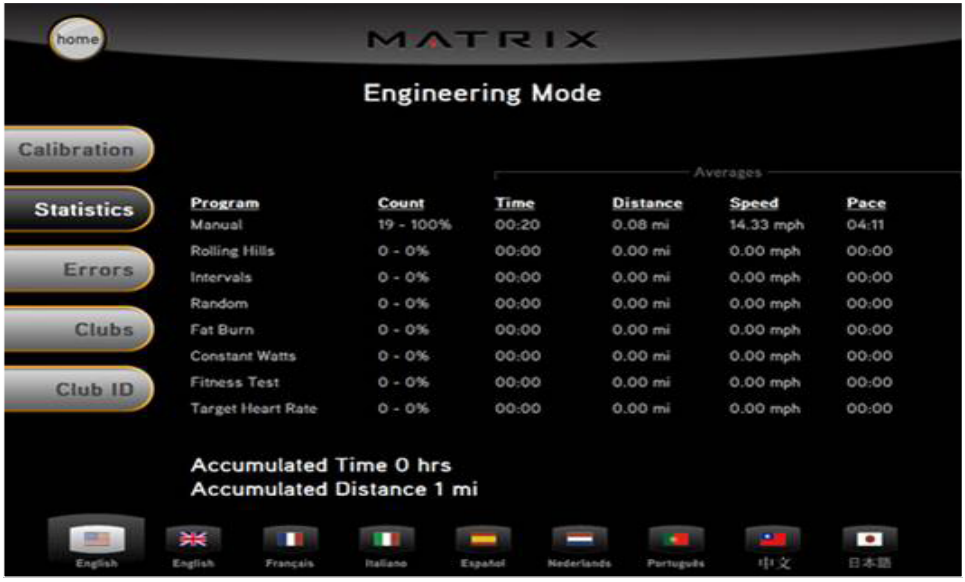
FIGURE A

6.2 ENGINEERING MODE - CALIBRATION TAB



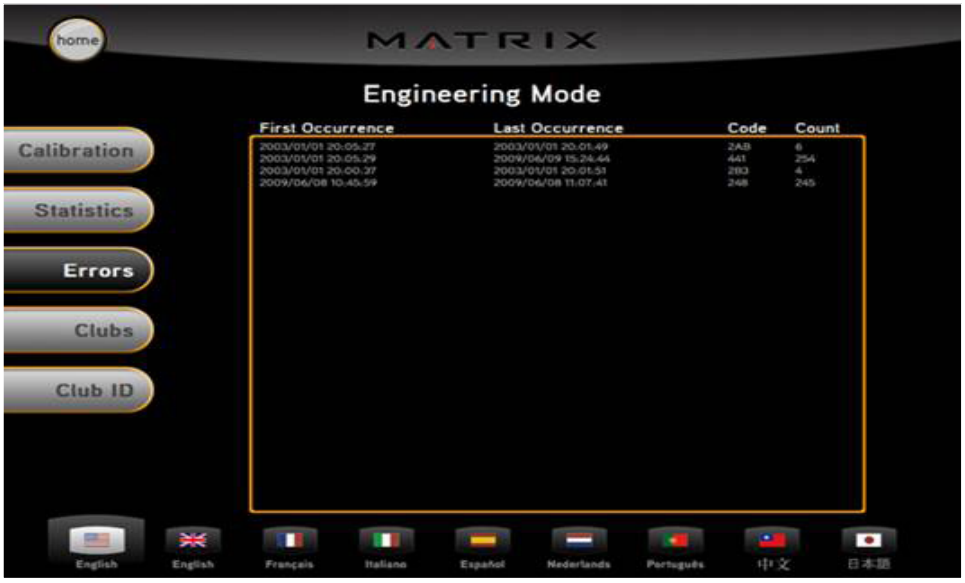
ENGINEERING MODE	FUNCTION & DEFAULTS	DESCRIPTIONS	MODIFIED
Calibration	RPM Low Limit Charge: Default: 10	This option controls the RPM low limit to iPod charge.	Range: 0 - 255
	RPM Low Limit Resistance Default: 10	This option control the RPM low limit to show resistance.	Range: 0 - 255

6.3 ENGINEERING MODE - STATISTICS TAB


home
MATRIX
Engineering Mode
Calibration
Statistics
Errors
Clubs
Club ID
Averages
Program Count Time Distance Speed Pace
Manual 19 - 100% 00:20 0.08 mi 14.33 mph 04:11
Rolling Hills 0 - 0% 00:00 0.00 mi 0.00 mph 00:00
Intervals 0 - 0% 00:00 0.00 mi 0.00 mph 00:00
Random 0 - 0% 00:00 0.00 mi 0.00 mph 00:00
Fat Burn 0 - 0% 00:00 0.00 mi 0.00 mph 00:00
Constant Watts 0 - 0% 00:00 0.00 mi 0.00 mph 00:00
Fitness Test 0 - 0% 00:00 0.00 mi 0.00 mph 00:00
Target Heart Rate 0 - 0% 00:00 0.00 mi 0.00 mph 00:00
Accumulated Time 0 hrs
Accumulated Distance 1 mi
English
English
Français
Italiano
Español
Nederlands
Português
中文
日本語

ENGINEERING MODE	FUNCTION & DEFAULTS	DESCRIPTIONS	MODIFIED
Statistics		This option displays the workout information for the unit.	N/A

6.4 ENGINEERING MODE - ERRORS TAB



ENGINEERING MODE	FUNCTION & DEFAULTS	DESCRIPTIONS	MODIFIED
Errors		This option displays the error code history for the unit.	N/A

6.5 ENGINEERING MODE - CLUBS TAB

ENGINEERING MODE	FUNCTION & DEFAULTS	DESCRIPTIONS	MODIFIED
	Clubs Default: MATRIX	This option allows the club to select a screen header from a list.	N/A

6.6 ENGINEERING MODE - CLUB ID TAB

ENGINEERING MODE	FUNCTION & DEFAULTS	DESCRIPTIONS	MODIFIED
	Club ID	This option records the Club ID of the fitness facility.	N/A

CHAPTER 7: SERVICE MODE

7.1 SERVICE MODE OVERVIEW

The Service Mode allows an authorized service provider to test and store information on the bike.

1) To enter Service Mode, press ENTER, 3, 0, 0, 1, ENTER on the lower display. Service Mode will appear on the display (Figure A).

2) Follow the prompts to change the desired setting.

3) Press the ENTER key once the desired setting is correct to save.

4) Press HOME to return to normal operation.

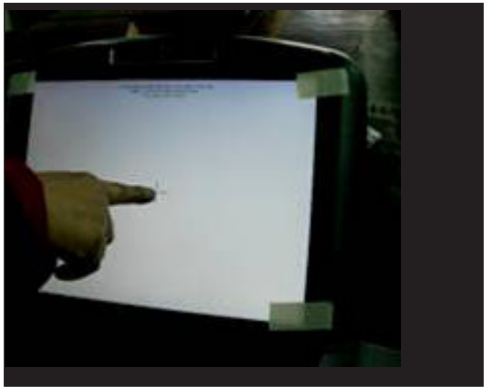
FIGURE A

7.2 SERVICE MODE - SETUP TAB

SERVICE MODE	FUNCTION & DEFAULTS	DESCRIPTIONS
Setup	Machine Type Default: Upright Bike	This option selects the current model.
	Serial Number	This option displays the serial number of the console and frame.
	Accumulated Distance	This option displays the accumulated workout distance since production.
	Accumulated Time	This option displays the accumulated workout time since production.
	Show Boot	Factory Setting Only.

7.3 SERVICE MODE - TEST TAB

SERVICE MODE	FUNCTION & DEFAULTS	DESCRIPTIONS
Test	Keypad	This option is for a keypad test.
	Touch Calibration	This option starts a touch calibration. Follow the cross mark moving across the screen and touch. After testing 5 positions, touch the center to exit the test.



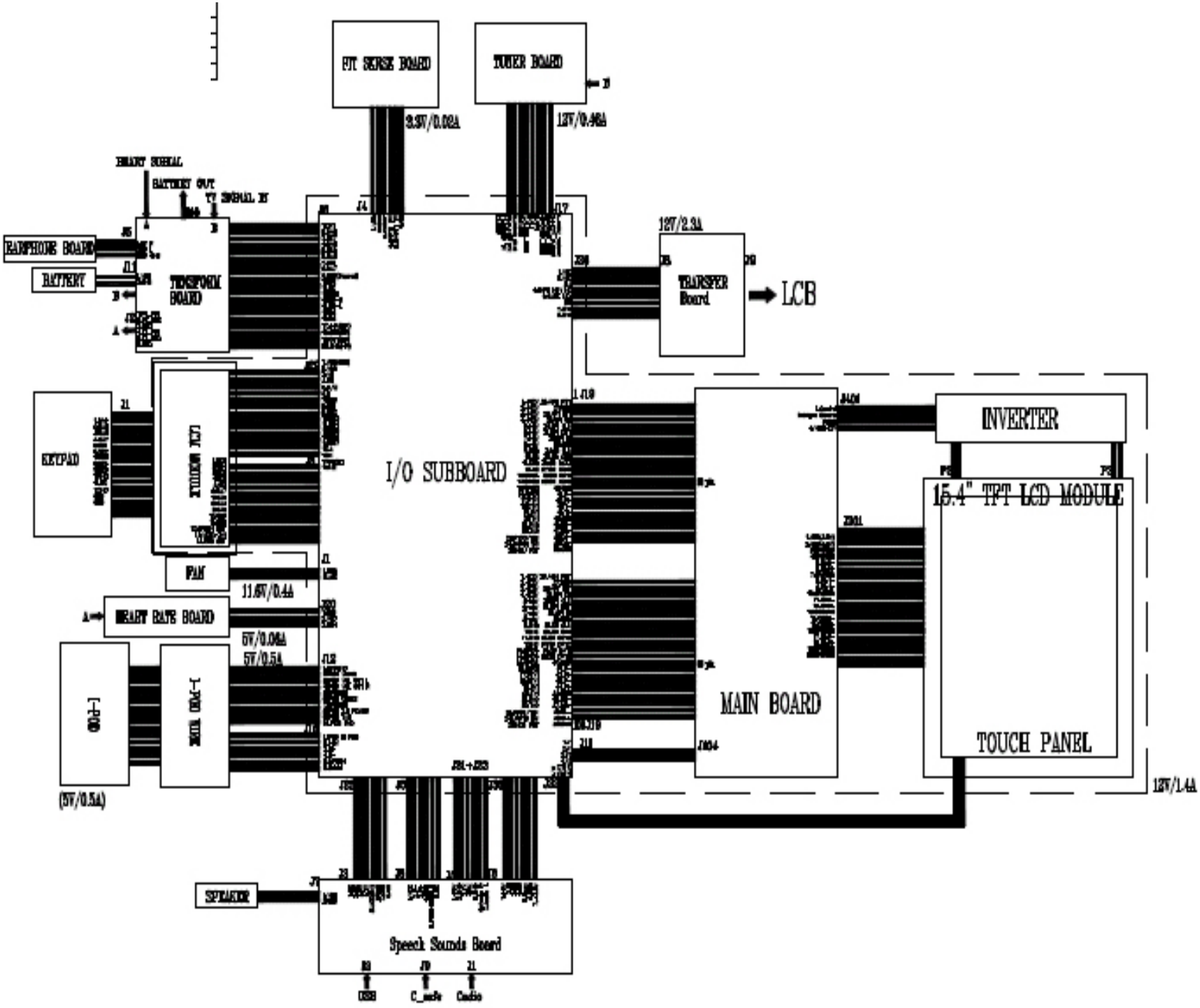
7.4 SERVICE MODE - LOG TAB

SERVICE MODE	FUNCTION & DEFAULTS	DESCRIPTIONS
	Log	This option records key component replacement history.

7.5 SERVICE MODE - DATE & TIME TAB

SERVICE MODE	FUNCTION & DEFAULTS	DESCRIPTIONS
	Date & Time	This option sets the current date and time on the machine.

8.1 ELECTRICAL DIAGRAMS



8.2 ERROR CODES ON THE CONSOLE

CODE	CLASS	DESCRIPTION	SOLUTION
0x0441	B	When the UCB implements a command, the LCB is not receiving this command.	Check the machine type in Engineering Mode. Check the console cable connections at the UCB and LCB.
0x02AB	C	Machine type error.	Set the correct machine type in Engineering Mode.
0x02B3	C	Resistance type error.	Set the correct machine type in Engineering Mode.
0x04A0	C	Digital Communication Failure. LCB has no return message for the UCB for 3 seconds.	Check the console cable connections at the UCB and LCB. Replace the UCB or LCB as needed.
0x0201	A	Low voltage on the battery (voltage under 11.2V).	Charge the battery by running or by plugging in the AC adapter.
0x0247	B	LCB failed (memory write error / feedback ADC error).	Replace the LCB.
0x0248	B	Battery failure or disconnection (Voltage under 8V or over 15V).	Check the wire connections at the battery. Replace the battery.

CLASS C ERRORS WILL DISPLAY ON THE CONSOLE.

CLASS A OR B ERRORS WILL ONLY DISPLAY IN SERVICE MODE 5.

8.3 LCB LED INSTRUCTIONS

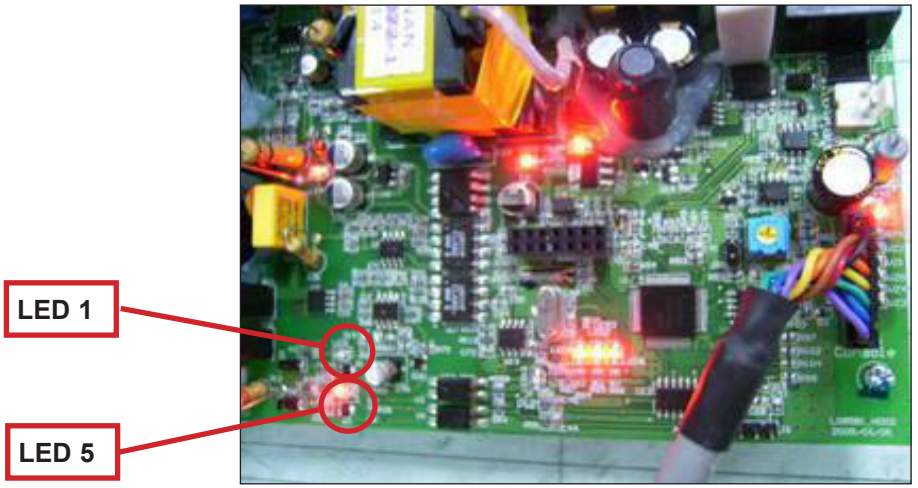
LED INDICATOR	DESCRIPTION
LED 1	RPM (AC Plug In).
LED 2	+5V
LED 3	+15V
LED 4	Bus Voltage
LED 5	RPM (Generator).
LED 6	Status 1 (Program operation).
LED 7	Status 2 (Resistance value in middle 1/2 VCC).
LED 8	Status 3 (Digital Communication).
LED 9	+12V (Console Power).

WITHOUT AC PLUG - NORMAL

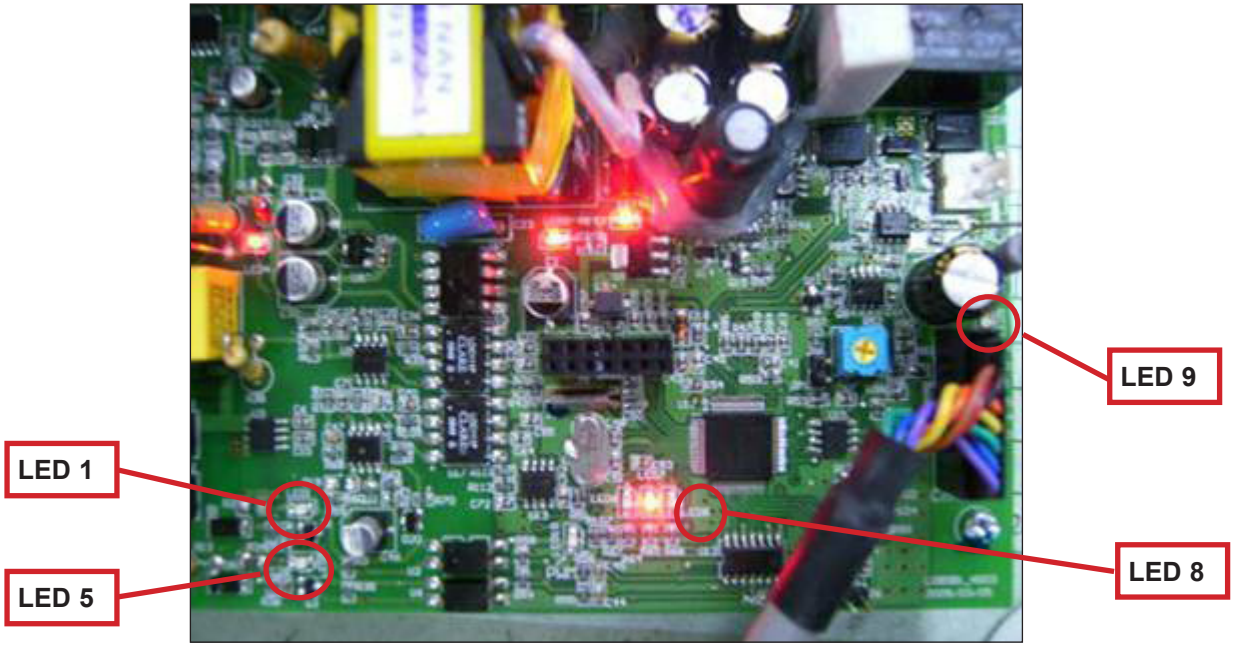
LED 2 - LED 9 - On.
LED 1 - Off (No AC plug detected).
LED 5 - On (Generator power detected),

WITH AC PLUG - NORMAL

LED 2 - LED 9 - On.
LED 1 - On (AC plug detected).
LED 5 - Off (No Generator power detected).



NO DISPLAY ON THE CONSOLE OR THE DISPLAY IS DIM WHEN RUNNING



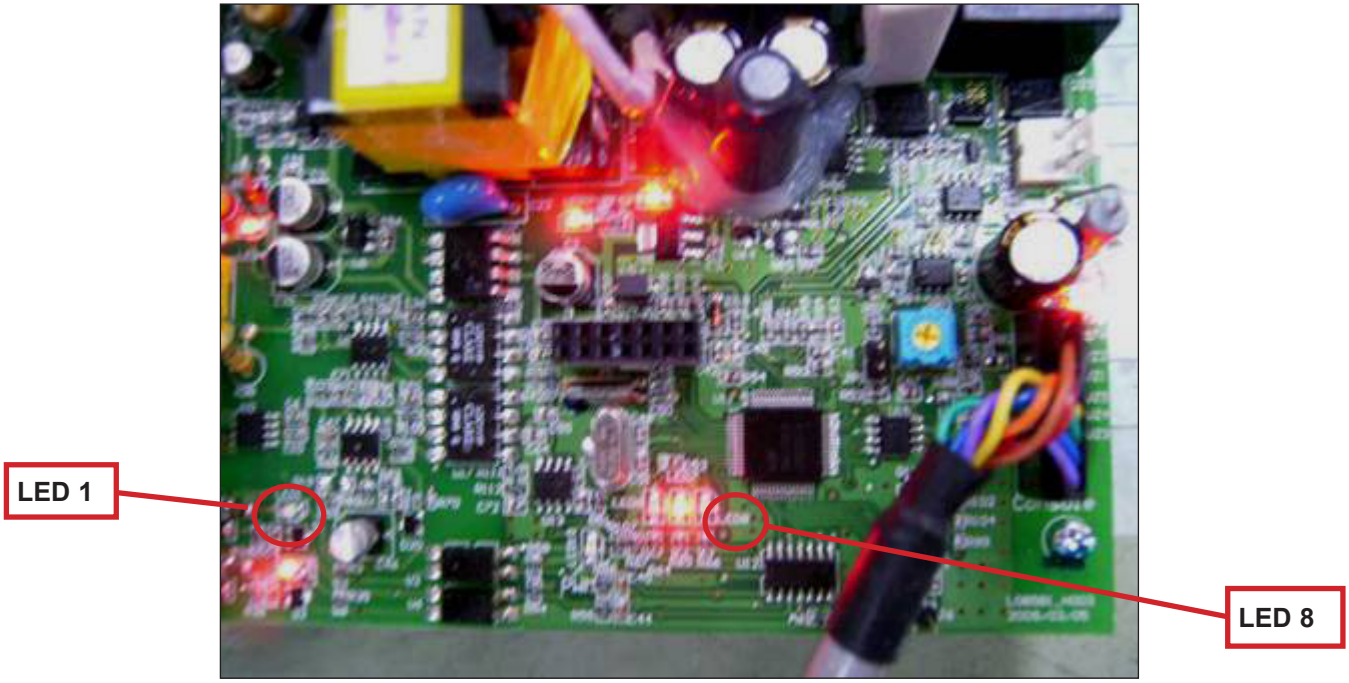
SYMPTOM: The console will not power up or the display is dim.

CHECK POINT	POSSIBLE ISSUE	SOLUTION
LEDs 2, 3, 4, 6, and 7 should be ON.	If they are OFF, the LCB is damaged.	Replace the LCB.
If LED 1 is OFF.	No AC power cord plugged in.	Normal for an unpowered unit.
If LED 5 is OFF.	Generator has no RPM output.	Normal for a powered unit. If unpowered and issue is still present, replace the generator.
If LED 8 is OFF.	Bad communication between UCB and LCB.	Reconnect the console cable at the LCB and UCB and check for kinks.
If LED 9 is OFF.	LCB is not providing 12V power to the UCB.	Replace the LCB.

SOLUTION IF LEDS ARE NORMAL:

1) If the LEDs are lit normally, replace the UCB and console cable.
2) if the issue is still present after the UCB and console cable are replaced, replace the LCB.

ERROR 0x04A0 (DIGITAL COMMUNICATION FAILURE)



SYMPTOM: Error code 0x04A0 is displayed on the console.

CHECK POINT	POSSIBLE ISSUE	SOLUTION
LEDs 2, 3, 4, 6, and 7 should be ON.	If they are OFF, the LCB is damaged.	Replace the LCB.
If LED1 is OFF.	No AC power cord plugged in.	Normal for an unpowered unit.
If LED 8 is OFF.	Bad communication between UCB and LCB.	Reconnect the console cable at the LCB and UCB and check for kinks.

SOLUTION IF LEDS ARE NORMAL:

1) If the LEDs are lit normally, replace the UCB and console cable.
2) if the issue is still present after the UCB and console cable are replaced, replace the LCB.

ALL OR SOME OF THE FUNCTION KEYS DO NOT RESPOND

POSSIBLE CAUSES:

1) The touch pad is not calibrated properly.
2) The UCB is damaged.

SOLUTION:

1) Perform a touch pad calibration in Service Mode:
   a. Press ENTER, 3, 0, 0, 1, ENTER on the lower number keypad.
   b. Press TEST on the display.
   c. Press TOUCH CALIBRATION on the display.
   d. Follow the cross mark moving across the screen and touch. After testing 5 positions, touch the center to exit the test (Figure A).

2) If the Touch Calibration does not work, replace the UCB.

FIGURE A

HIGH OR NO RESISTANCE

POSSIBLE CAUSES:

1) The console cable is damaged or not properly plugged in.
2) The UCB is damaged.
3) The Generator is damaged.
4) The LCB is damaged.

SOLUTION:

1) Check the console cable connections at the UCB and LCB.

2) Check if the generator is outputting variable power:
   a. Insert the probes from a multi-meter into the black and red wires on the generator wire harness connector (Figure A).
   b. When pedaling, the output voltage from the generator should vary depending on the RPM. The generator should output 120 VAC at 94 RPM.

3) If the generator does not have variable power, replace the generator.

4) If the generator does have variable power, replace the LCB.

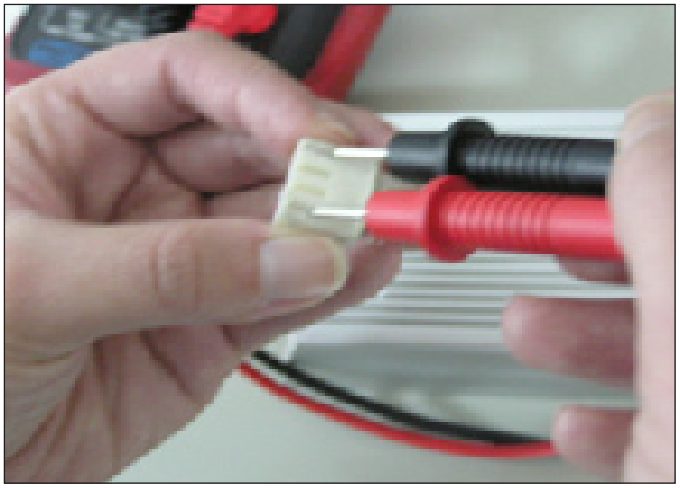


FIGURE A

PEDALS SLIPPING

POSSIBLE CAUSES:

1) The belt tension is not enough.
2) The one way bearing is damaged.

SOLUTION:

1) Remove the covers and check the belt tension.
   a. Tighten the drive belt tension if needed by moving the spring tension clip to another hole.
   b. The ECB belt should be tightened to 85 ft / lbs.

2) If the belts are tensioned correctly, the one way bearing is damaged, replace the drive assembly.

KNOCKING OR CREAKING NOISE

POSSIBLE CAUSES:

1) The pedal is on the crank too loosely.
2) The crank or axle is worn out.
3) The belt tension is not enough, or the belts are too dirty.

SOLUTION:

1) Retighten the pedal on the crank.

2) Replace the crank or axle as needed.

3) Remove the covers and check the belt tension.
   a. Tighten the drive belt tension if needed by moving the spring tension clip to another hole (see Section 9.13).
   b. The ECB belt should be tightened to 85 ft / lbs.

4) Clean the belts. If they are worn or will not clean, replace the belts.

8.10 TROUBLESHOOTING - HEART RATE ISSUES

HEART RATE FUNCTION DOES NOT WORK OR IS READING INCORRECTLY

POSSIBLE CAUSES:

1) The chest strap being used is not making good contact with the user's chest.
2) The chest strap is at a low battery status.
3) The chest strap is damaged.
4) The HR grips are damaged.
5) The HR board is damaged.
6) The UCB is damaged.

SOLUTION:

1) Recenter the chest strap below the user's pectoral muscle (Figure A) and check again.

2) Replace the battery in the chest strap.

3) Replace the chest strap.

4) If there is no HR present, replace the HR grips.

5) If there is a HR present but it is much higher than normal, replace the HR board.

6) If replacing the HR grips and board does not resolve the issues, replace the console.

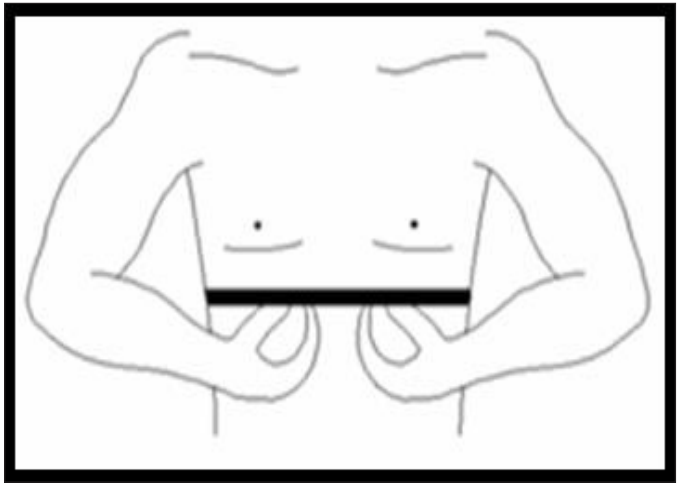


FIGURE A

8.11 TROUBLESHOOTING - TV ISSUES

1) This section will help with diagnosing problems with the integrated screen TV for the Matrix U7xe-01 Bike.

2) The TV should have power whenever the unit is powered up. If the TV will not power up when the power button is pressed:
a) Press ENTER, 3, 0, 0, 1, ENTER on the upper number keypad. Press TEST on the display. Check to make sure that it says INCLUDE POWER next to the TV Keypad option. If it is excluded, change to include power and retry the TV power.
b) If the TV Keypad option is correct and the TV still will not power up, replace the console.

3) For a fuzzy or unclear picture, see the TV programming instructions in Section 10.6. If the TV is still fuzzy or unclear after programming:
a) Check the coax connection at the entertainment port (Figure A).
b) Remove the 4 screws holding the console to the console mast and check the coax connection at the console (Figure B).
c) Move the coax cable to directly plug into the back of the console bypassing the entertainment port. If this resolves the issue, replace the internal coax cable.
d) If plugging the coax cable into the back of the console does not resolve the issue, check the coax cable with a known working television. If the coax cable is good, replace the console.

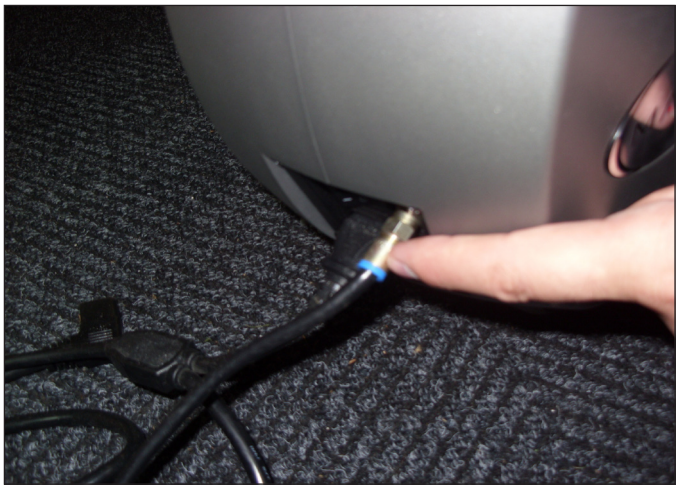


FIGURE A

FIGURE B

CHAPTER 9: PART REPLACEMENT GUIDE

9.1 CONSOLE REPLACEMENT

1) Remove the 4 screws holding the console to the frame (Figure A).
2) Disconnect the console cable and HR connections from the defective console and remove the console (Figure B).
3) Reinstall the wire connections to the new console.
4) Carefully push the wires into the console and mast until they are clear of the console / mast connection and attach the console to the mast using the 4 screws.
5) Test the bike for function as outlined in Section 9.20.

FIGURE A

FIGURE B

9.2 HEART RATE HANDLEBAR REPLACEMENT

1) Remove the 2 screws holding on the handlebar cover (Figures A & B).
2) Remove the 4 screws holding the heart rate handlebar to the console mast being careful to support the handlebar (Figure C).
3) Carefully pull the wires from the console mast until the connectors are showing, and then disconnect the 3 wires from the handlebar and remove the defective handlebar (Figure D).
4) Reverse Steps 1-3 to install a new handlebar.
5) Test the bike for function as outlined in Section 9.20.

FIGURE A

FIGURE B

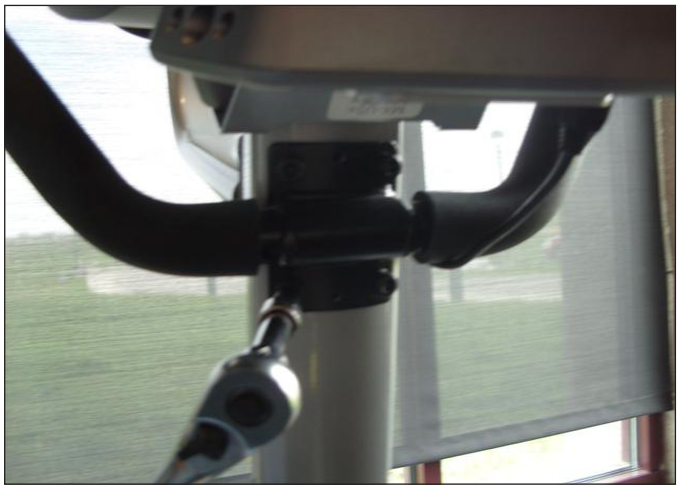


FIGURE C

FIGURE D

9.3 HEART RATE GRIPS REPLACEMENT

1) Using a flat screwdriver, pry the silver metal heart rate plate on the back side of the HR grip away from the plastic of the HR grip (Figure A).
2) Disconnect the HR grip wire and remove the metal plate (Figure B).
3) Remove the 3 screws holding the HR grip together (Figure C).
4) Disconnect the level button and remove the two halves of the HR grip (Figure D).
5) Reverse Steps 1-4 to install new HR grips.
6) Test the bike for function as outlined in Section 9.20.

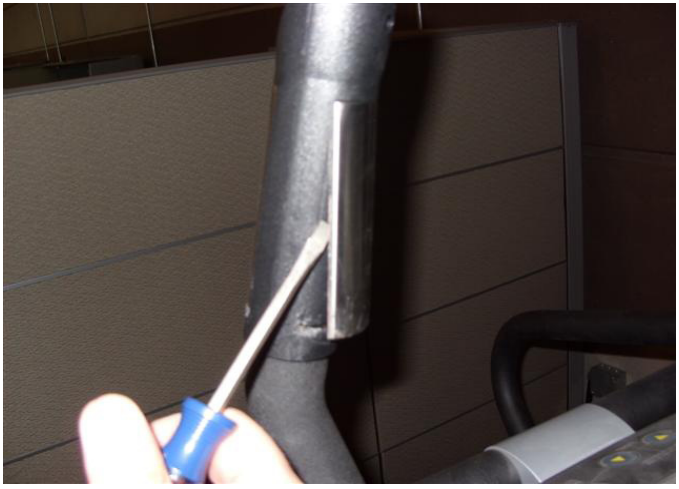


FIGURE A

FIGURE B

FIGURE C

FIGURE D

9.4 CUP HOLDER REPLACEMENT

1) Locate the cup holder on the back of the console (Figure A).
2) Pull up and remove the cup holder (Figure B).
3) Reverse Steps 1-2 to install a new cup holder.

FIGURE A

FIGURE B

9.5 CONSOLE KEYPAD / OVERLAY REPLACEMENT

1) Remove the console as outlined in Section 9.1.
2) Remove the back cover of the console (Figure A).
3) Unplug and remove the faulty overlay (Figure B).
4) Clean the console area with alcohol to remove any left over adhesive (Figure C).
5) Remove the protective film over the display window of the overlay (Figure D).
6) Peel part of the protective film from the back of the overlay (Figure E).
7) Push the overlay ribbon cable through the hole in the console and plug it in (Figure F).
8) Match the overlay to the cutout on the console (Figure G).
9) Press down on the corners of the overlay to keep it in place, then remove the protective film (Figure H & I).
10) Once the overlay is in the correct position, press down on the overlay with a cloth to adhere it to the console plastic (Figure J).
11) Use the same procedure to replace any additional faulty overlays. NOTE: Overlays can not be reused.
12) Test the bike for function as outlined in Section 9.20.

FIGURE A

FIGURE B

FIGURE C

FIGURE D

9.5 CONSOLE KEYPAD / OVERLAY REPLACEMENT - CONTINUED

FIGURE E

FIGURE F

FIGURE G

FIGURE H

FIGURE I

FIGURE J

9.6 CONSOLE MAST REMOVAL

1) Remove the console as outlined in Section 9.1.
2) Remove the HR handlebars as outlined in Section 9.2.
3) Lift up the rubber boot at the bottom of the console mast (Figure A), and remove the 4 screws holding the console mast to the frame (Figure B).
4) Pull the wires out the bottom of the console mast and remove the mast (Figure C).
5) When installing a new console mast, be sure to pull the console wires up through the new mast prior to installing the 4 screws into the frame.
6) Test the bike for function as outlined in Section 9.20.

FIGURE A

FIGURE B

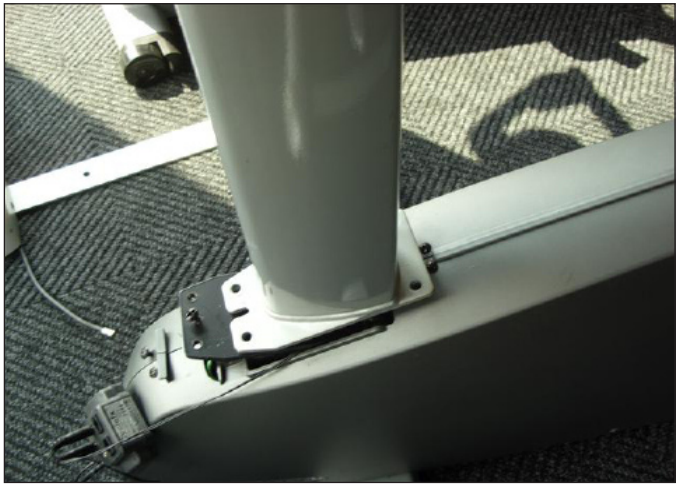


FIGURE C

9.7 SEAT PAD REPLACEMENT

1) Remove the 4 screws holding the seat pad to the seat post (Figure A).
2) Lift the seat pad away from the seat post (Figure B).
3) Reverse Steps 1-2 to install a new seat pad.

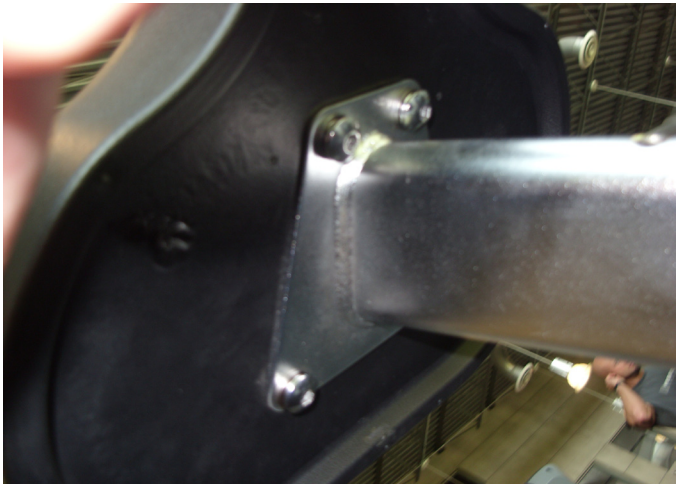


FIGURE A

FIGURE B

9.8 SEAT POST REPLACEMENT

1) Remove the seat adjustment pin (Figure A).
2) Pull the seat post upward until the stem comes away from the frame (Figure B).
3) Remove the 4 nuts holding the seat pad to the seat post and remove the seat pad (Figure C).
4) Reverse Steps 1-3 to install a new seat post.

FIGURE A

FIGURE B

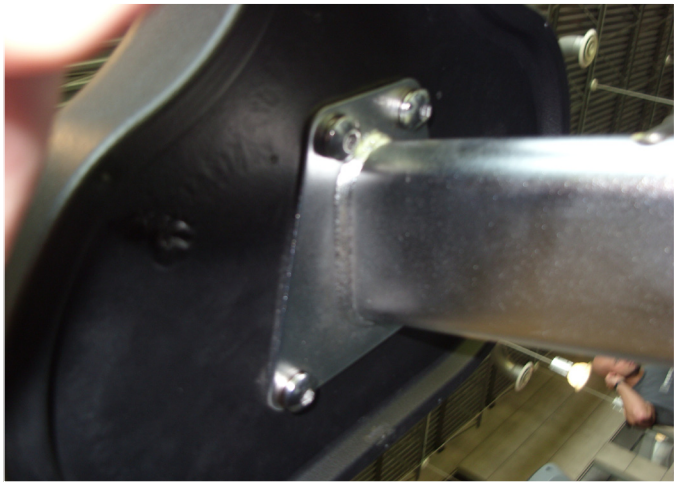


FIGURE C

9.9 SEAT POST INSERT REPLACEMENT

1) Remove the seat adjustment pin (Figure A).
2) Pull the seat post upward until the stem comes away from the frame and set it aside (Figure B).
3) Remove the rubber boot that rests at the bottom of the seat post (Figure C).
4) Grab the lip of the seat post insert and remove it from the seat post (Figure D).
5) Reverse Steps 1-4 to install a new seat post insert.

FIGURE A

FIGURE B

FIGURE C

FIGURE D

9.10 PEDAL REPLACEMENT

1) Use a 15 mm wrench to remove the pedal from the crank (Figure A). NOTE: For the right side pedal, the threads are normal. For the left side pedal, the threads are reversed (the pedal turns off counterclockwise).
2) Remove the pedal (Figure B).
3) Reverse Steps 1-2 to install a new pedal.

FIGURE A

FIGURE B

9.11 SHROUDS REMOVAL

1) Remove the pedals as outlined in Section 9.10.
2) Remove the seat adjustment pin (Figure A).
3) Remove the seat post and seat post boot (Figures B & C).
4) Remove the 13 screws holding the left shroud in place (Figure D).
5) Remove the 13 screws holding the right shroud in place (Figure E).
6) Once the screws are removed from both side shrouds, lift the shrouds away from the frame. NOTE: You will need to angle the shroud so that the crank passes through the hole in the shroud.

FIGURE A

FIGURE B

FIGURE C

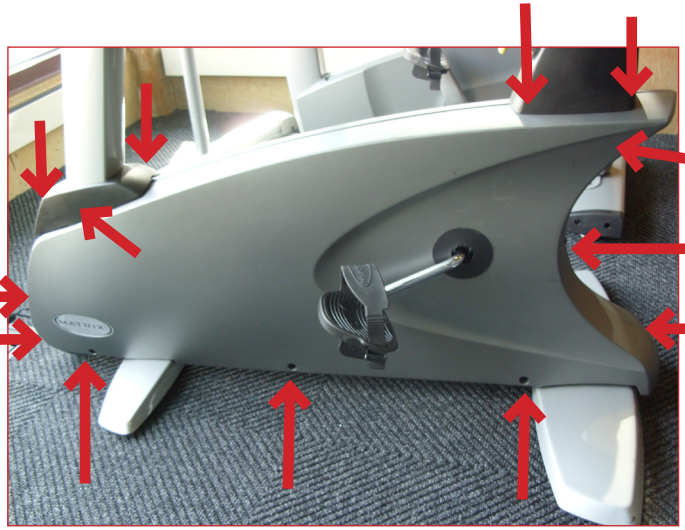


FIGURE D

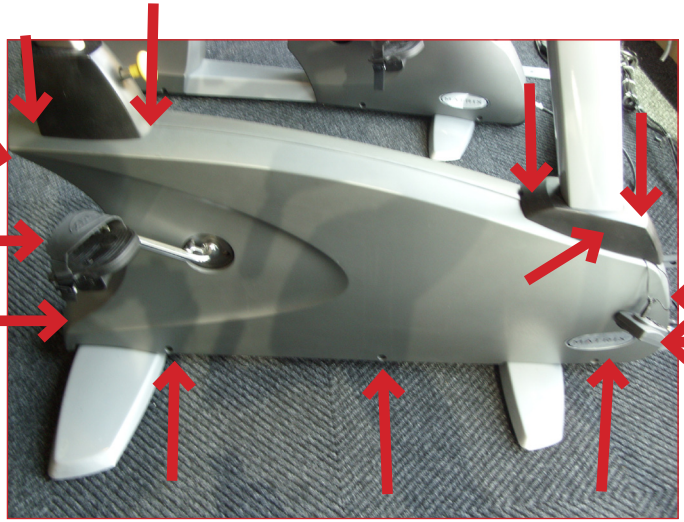


FIGURE E

9.12 LOWER CONTROL BOARD REPLACEMENT

1) Remove the shrouds as outlined in Section 9.11.
2) Remove the 3 screws holding the cover onto the lower board and remove the cover (Figure A).
3) Disconnect the 3 wire connections to the lower board (Figure B).
4) Remove the 2 screws holding the lower board to the frame (Figure C), and remove the lower board.
5) Reverse Steps 1-4 to install a new lower board.
6) Test the bike for function as outlined in Section 9.20.

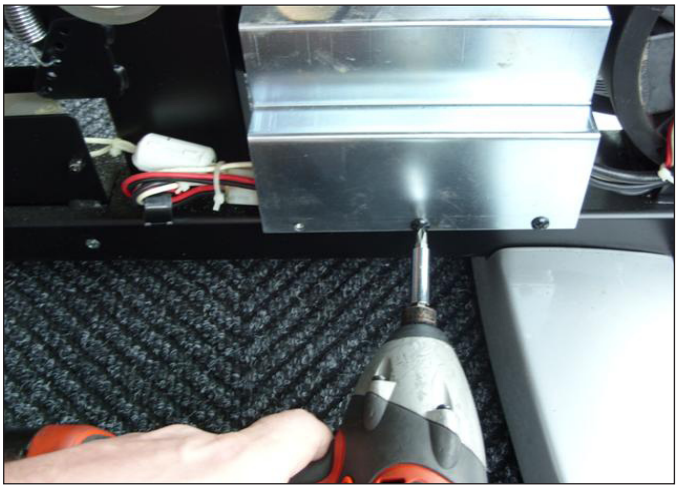


FIGURE A

FIGURE B

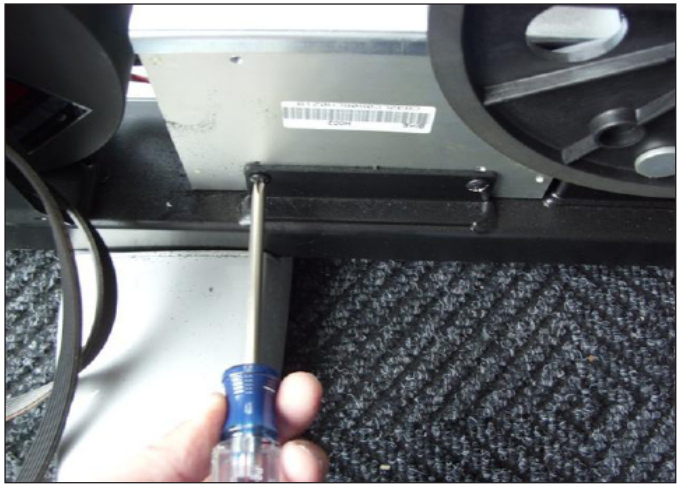


FIGURE C

9.13 DRIVE BELT REPLACEMENT

1) Remove the right side shroud as outlined in Section 9.11.
2) Pull up on the tension assembly and walk the belt off of the pulley (Figure A).
3) Remove the belt (Figure B).
4) Reverse Steps 1-3 to install a new drive belt. NOTE: Be sure to reattach the tension spring (Figure C). If more tension is needed on the drive belt, multiple holes are available for the lower spring attachment (Figure D).
5) Test the bike for function as outlined in Section 9.20.

FIGURE A

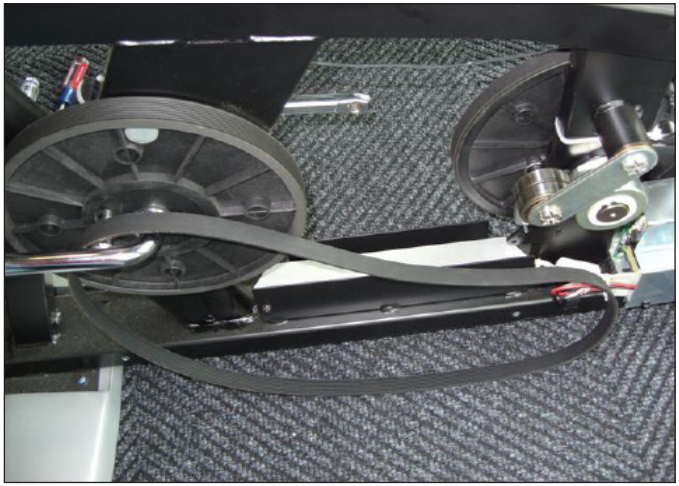


FIGURE B

FIGURE C

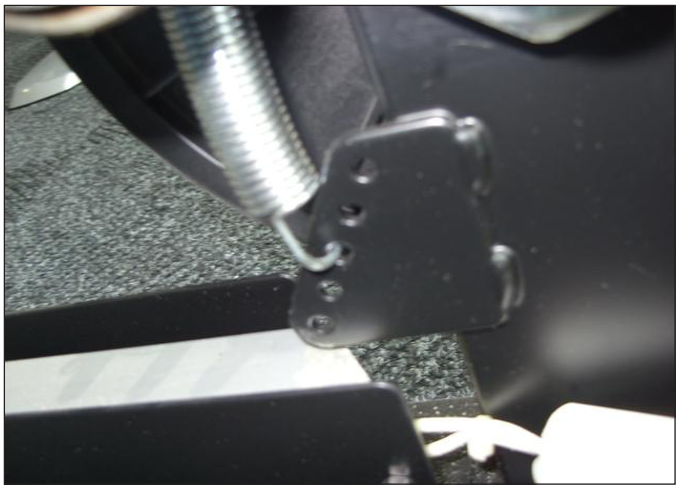


FIGURE D

9.14 ECB (ELECTRONIC BRAKE) BELT REPLACEMENT

1) Remove the shrouds as outlined in Section 9.11.
2) Loosen the nuts holding the ECB to the frame (Figure A), and remove the nuts putting tension on the ECB belt (Figure B).
3) Once the tension has been removed, the ECB belt can be walked off of the pulley (Figure C).
4) Pull the ECB out of the frame towards the front of the unit, and remove the ECB belt (Figure D).
5) Reverse Steps 1-4 to install a new ECB belt. NOTE: Be sure to retension the new ECB belt to 80 ft / lbs of torque.
6) Test the bike for function as outlined in Section 9.20.

FIGURE A

FIGURE B

FIGURE C

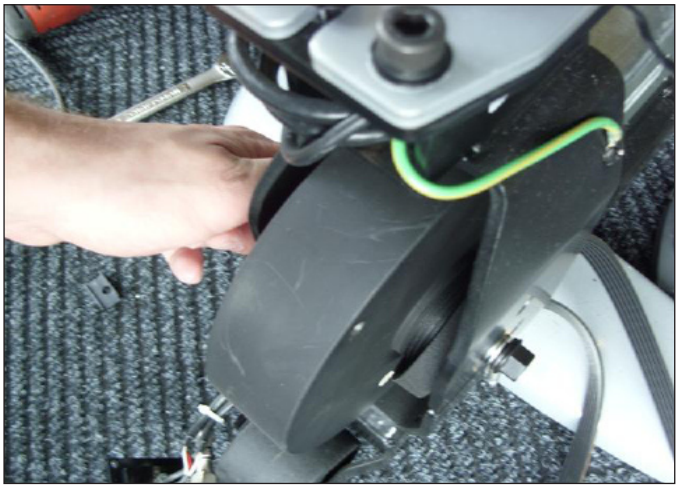


FIGURE D

9.15 ECB REPLACEMENT

1) Remove the shrouds as outlined in Section 9.11.
2) Remove the nuts holding the ECB to the frame (Figure A), and remove the nuts putting tension on the ECB belt (Figure B).
3) Once the tension has been removed, the ECB belt can be walked off of the pulley (Figure C).
4) Pull the ECB out of the frame towards the front of the unit, and remove the ECB belt (Figure D).
5) Reverse Steps 1-4 to install a new ECB.
6) Test the bike for function as outlined in Section 9.20.

FIGURE A

FIGURE B

FIGURE C

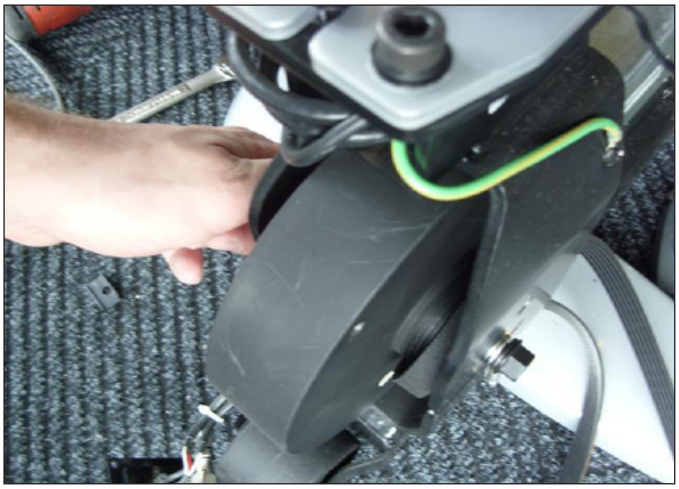


FIGURE D

9.16 PULLEY AXLE SET REPLACEMENT

1) Remove the shrouds as outlined in Section 9.11.
2) Remove the drive belt as outlined in Section 9.13.
3) Loosen the nuts holding the ECB to the frame (Figure A), and remove the nuts putting tension on the ECB belt (Figure B).
4) Once the tension has been removed, walk the ECB belt off of the pulley (Figure C).
5) Remove the C-clip holding the bearing in place on the right side of the frame (Figure D).
6) Remove the bearing (Figure E).
7) Remove the 60 mm nut holding in the pulley axle assembly with a large channel lock pliers or a pipe wrench (Figure F).
8) Once the 60 mm nut is removed, the pulley axle set can be removed from the left side of the frame (Figure G).
9) Reverse Steps 1-8 to install a new pulley axle set.
10) Test the bike for function as outlined in Section 9.20.

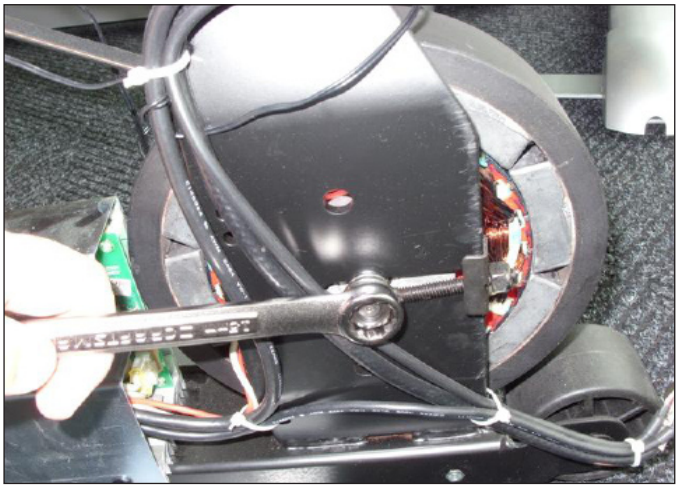


FIGURE A

FIGURE B

FIGURE C

9.16 PULLEY AXLE SET REPLACEMENT - CONTINUED

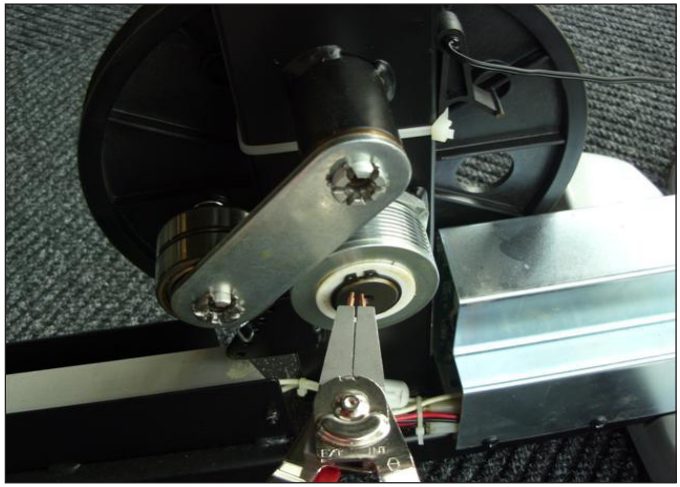


FIGURE D

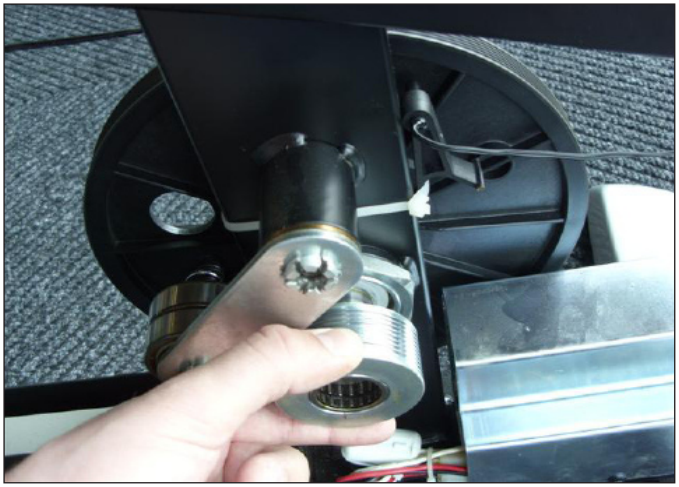


FIGURE E

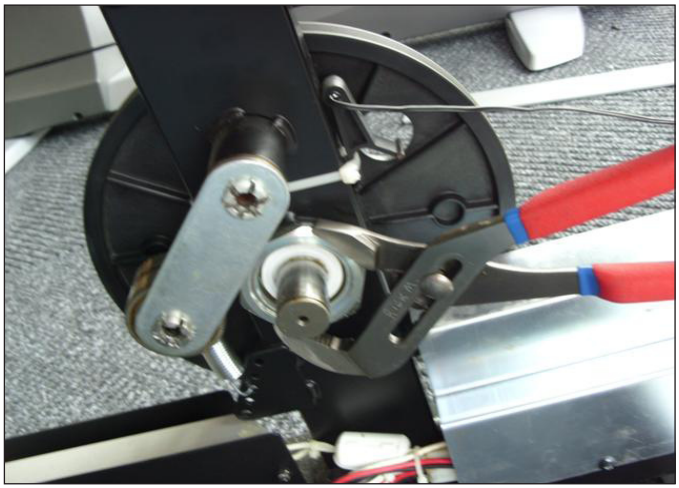


FIGURE F

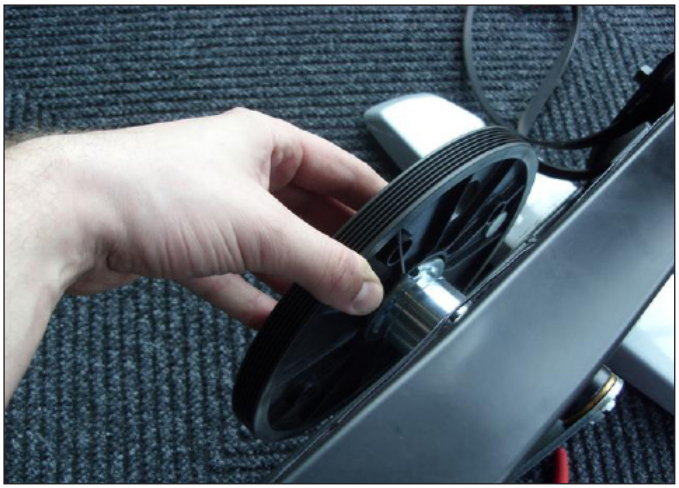


FIGURE G

9.17 CRANK AXLE SET REPLACEMENT

1) Remove the shrouds as outlined in Section 9.11.
2) Pull up on the tension assembly and walk the drive belt off of the pulley (Figure A).
3) Remove the drive belt (Figure B).
4) Remove the 3 screws holding the crank axle bearings in place on both sides (Figure C).
5) Bend the tabs of the nut on the left side of the frame so that this nut will turn (Figure D).
6) Use a 32 mm wrench to remove the crank axle nuts (Figure E). NOTE: This nut is reverse threaded.
7) Once the nuts are removed, the crank axle can be removed from the frame from the right side.
8) Reverse Steps 1-7 to install a new crank axle set.
9) Test the bike as outlined in Section 9.20.

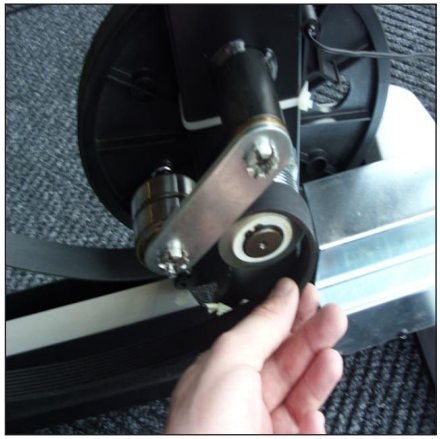


FIGURE A

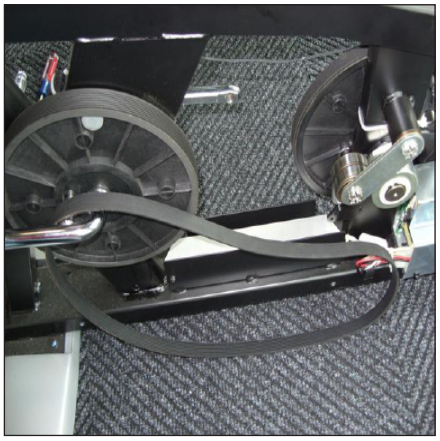


FIGURE B

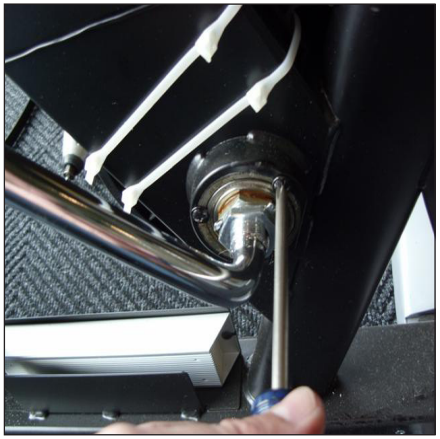


FIGURE C

FIGURE D

FIGURE E

9.18 REAR STABILIZER REPLACEMENT

1) Lean the bike to one side and remove the 4 screws holding the rear stabilizer to the frame (Figure A).
2) Remove the rear stabilizer (Figure B).
3) Reverse Steps 1-2 to install a rear stabilizer.

FIGURE A

FIGURE B

9.19 FRONT STABILIZER REPLACEMENT

1) Lean the bike to one side and remove the 4 screws holding the front stabilizer to the frame (Figure A).
2) Remove the front stabilizer (Figure B).
3) Reverse Steps 1-2 to install a new front stabilizer.

FIGURE A

FIGURE B

9.20 TESTING THE BIKE

ONCE THE UNIT OR REPLACEMENT PART IS FULLY INSTALLED AND ASSEMBLED AND PROPERLY PLACED ON THE FLOOR, USE THE FOLLOWING INSTRUCTIONS TO SETUP AND TEST THE MACHINE:

1) Check that the console is set for bike.
   a. Press ENTER, 3, 0, 0, 1, ENTER on the lower number keypad to enter Service Mode.
   b. Press SETUP on the display.
   c. Press MACHINE TYPE on the display.
   d. Press BIKE on the display.
   e. Press UPRIGHT on the display.
   f. Press the BACK and HOME keys to return to normal function.

2) Enter the serial number of the frame into the console. To do so:
   a. Press ENTER, 3, 0, 0, 1, ENTER on the lower number keyapd, Service Mode will appear on the display.
   b. Press SETUP on the display.
   c. Press SERIAL NUMBER on the display.
   d. Press PLATFORM on the display.
   e. Enter the last 8 digits of the serial # from the base frame of the unit (see Section 1.1 for serial number location).
   f. Press OK on the display to save the serial number.
   g. Press the HOME key to return to normal function.

3) Without hitting start or entering any program modes, sit on the bike and hold the handlebars while pedaling to simulate exercising. While moving, listen for any odd noises or squeaks.

4) After stopping movement, press the green GO key and begin pedaling.

5) Grasp the hand grips to check for proper heart rate response.

6) Press the level up and down buttons on the console and hand grips to make sure resistance is fully functional.

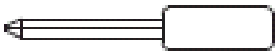
7) If everything functions properly, stop pedaling and the unit will reset to normal operation within 30 seconds.

CHAPTER 10: BIKE SPECIFICATIONS AND ASSEMBLY GUIDE

10.1 U7xe-01 BIKE SPECIFICATIONS

CONSOLE	
Display Type	15" Touch Screen LCD
Display Feedback	Time, Distance, Calories, Calories per hour, Speed, Heart Rate, METs, Watts, Level, RPM, Dynamic Profile Display, Static Profile Display.
Programs	Manual, Rolling, Intervals, Fat Burn, Random, Fitness Test, Target HR, Constant Watts
Resistance Levels	25
CSafe, FitLinxx Ready	Yes
Integrated Vista Clear Digital Ready TV	Yes - 15" screen size
Fit Touch™ Technology	Yes
Wireless Data Transmitter	Yes
iPod Compatible	Yes
Nike + iPod Compatible	Yes
Personal Fan	Yes
TECHNICAL DATA	
Resistance Technology	JID Brushless Generator
Power Requirements0	120V / 60Hz AC Power
Minimum Watts	12
Overall Dimensions (L x W x H)	44" x 29" x 60" / 111.8 x 73.7 x 152.4 cm
Maximum User Weight	400 lbs / 181.4 kg
Unit Weight	160 lbs / 72.6 kg
Shipping Weight	205 lbs / 93 kg
Transport Wheel	Yes
USER DATA	
Contact Heart Rate Sensors	Yes
Telemetric Heart Rate Receiver	Yes
Handle Bar Design	Full racing style with elbow support.
Thumb Switch Controls	Yes

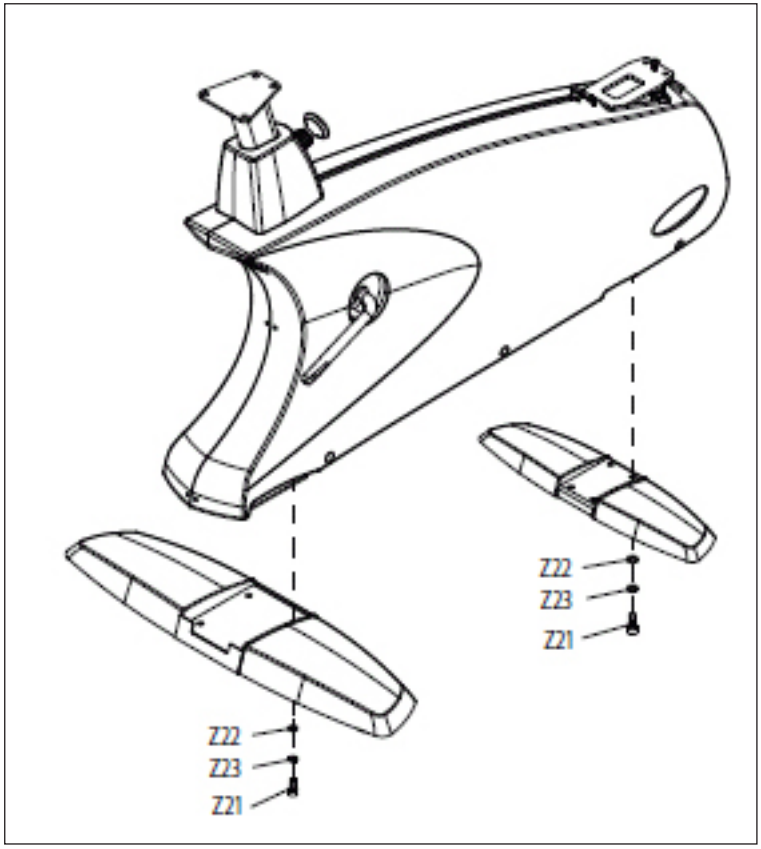
10.2 FASTENERS AND ASSEMBLY TOOLS

QUANTITY	PART #	SKETCH	DESCRIPTION	NOTES
1	Z04		4 MM ALLEN WRENCH	PURPLE
1	Z03	See sketch of part Z04	5MM ALLEN WRENCH	PURPLE
1	Z01	See sketch of part Z04	6 MM ALLEN WRENCH	PURPLE
1	Z05		OPEN END WRENCH (15 & 17MM)	PURPLE
1	Z02		#2 PHILLIPS SCREWDRIVER	PURPLE
4	Z11		HEX HEAD SCREW (M8 X 25L)	WHITE
4	Z12		SPRING WASHER	WHITE
2	Z13		BUTTON HEAD SCREW (M5 X 10L)	WHITE
8	Z21		HEX HEAD SCREW (M8 X 20L)	BLACK
8	Z22		FLAT WASHER	BLACK
8	Z23	See sketch of part Z12	SPRING WASHER	BLACK
4	Z31		BUTTON HEAD SCREW (M8 X 15L)	YELLOW
4	Z32	See sketch of part Z12	SPRING WASHER	YELLOW
4	Z33	See sketch of part Z22	FLAT WASHER	YELLOW
2	Z34	See sketch of part Z11	HEX HEAD SCREW (M8 X 25L)	YELLOW
4	Z41	See sketch of part Z31	BUTTON HEAD SCREW (M8 X 20L)	RED
4	Z42	See sketch of part Z22	FLAT WASHER	RED
4	Z43	See sketch of part Z12	SPRING WASHER	RED
4	Z51	See sketch of part Z11	HEX HEAD SCREW (M5 X 12L)	GREEN
4	Z52	See sketch of part Z12	SPRING WASHER	GREEN

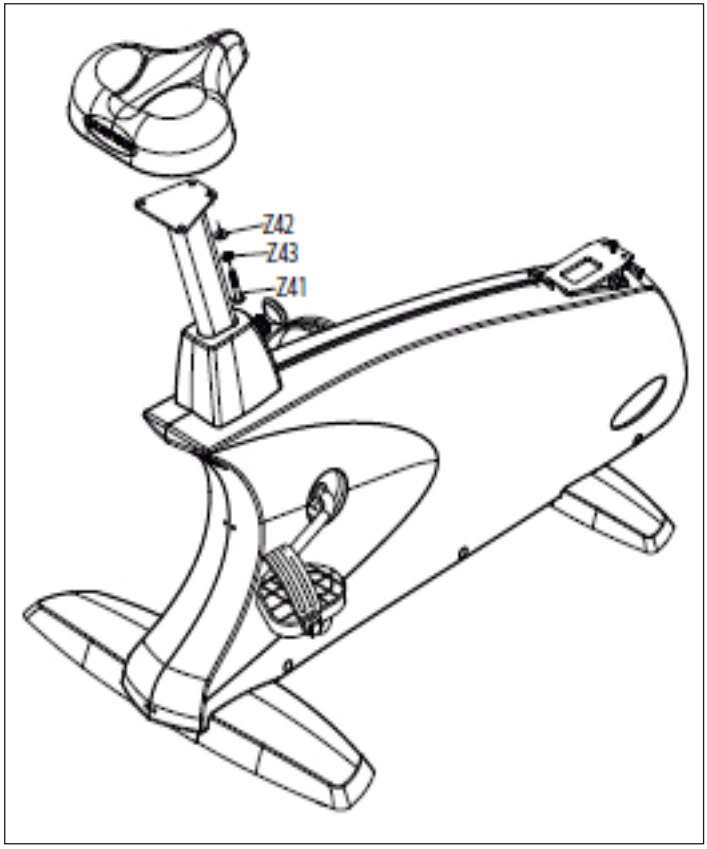
10.3 ASSEMBLY INSTRUCTIONS

AFTER THESE ASSEMBLY STEPS ARE COMPLETE, BE SURE TO SETUP AND TEST THE UNIT AS OUTLINED IN SECTION 9.20.

STEP 1

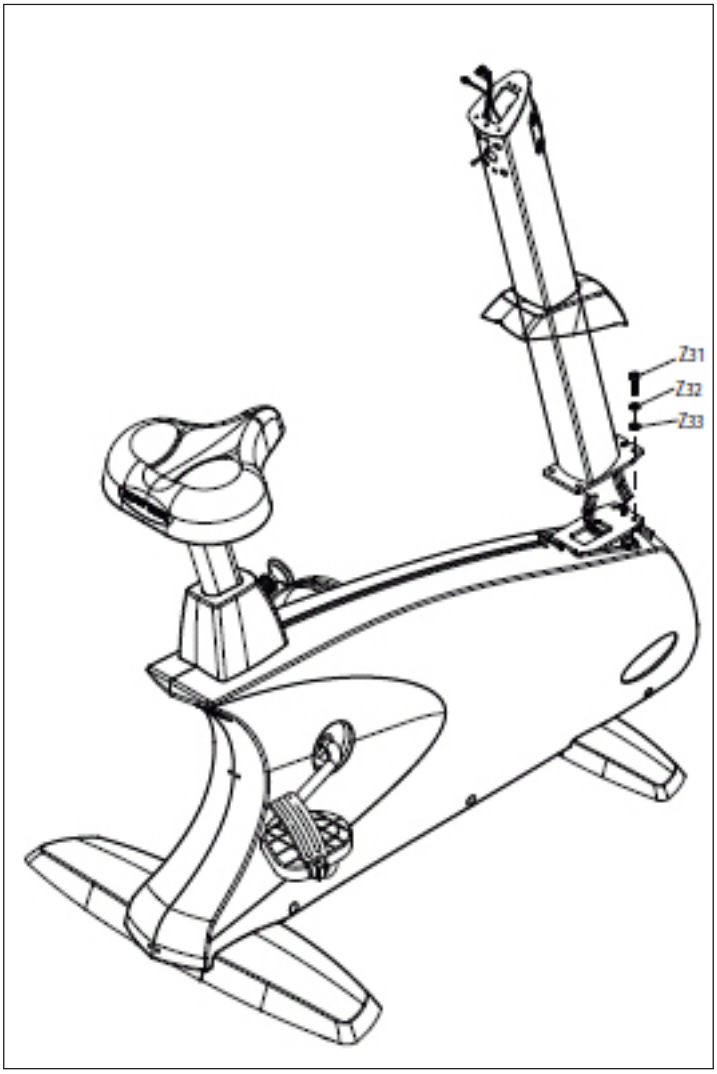


STEP 2

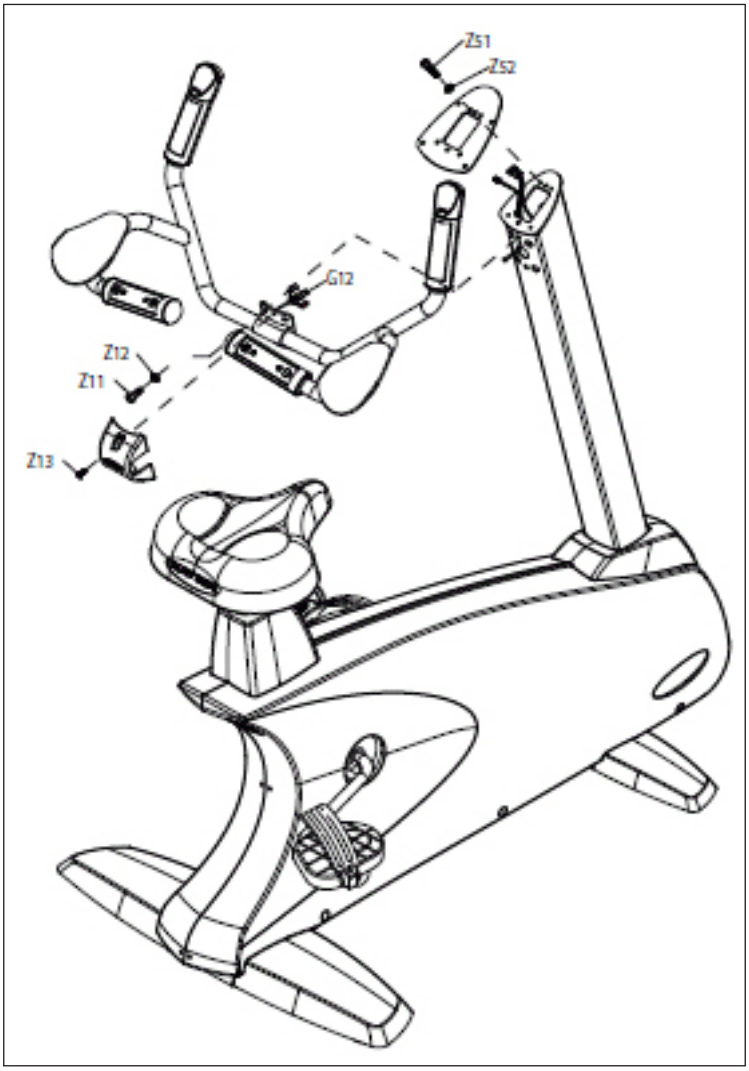


10.3 ASSEMBLY INSTRUCTIONS - CONTINUED

STEP 3

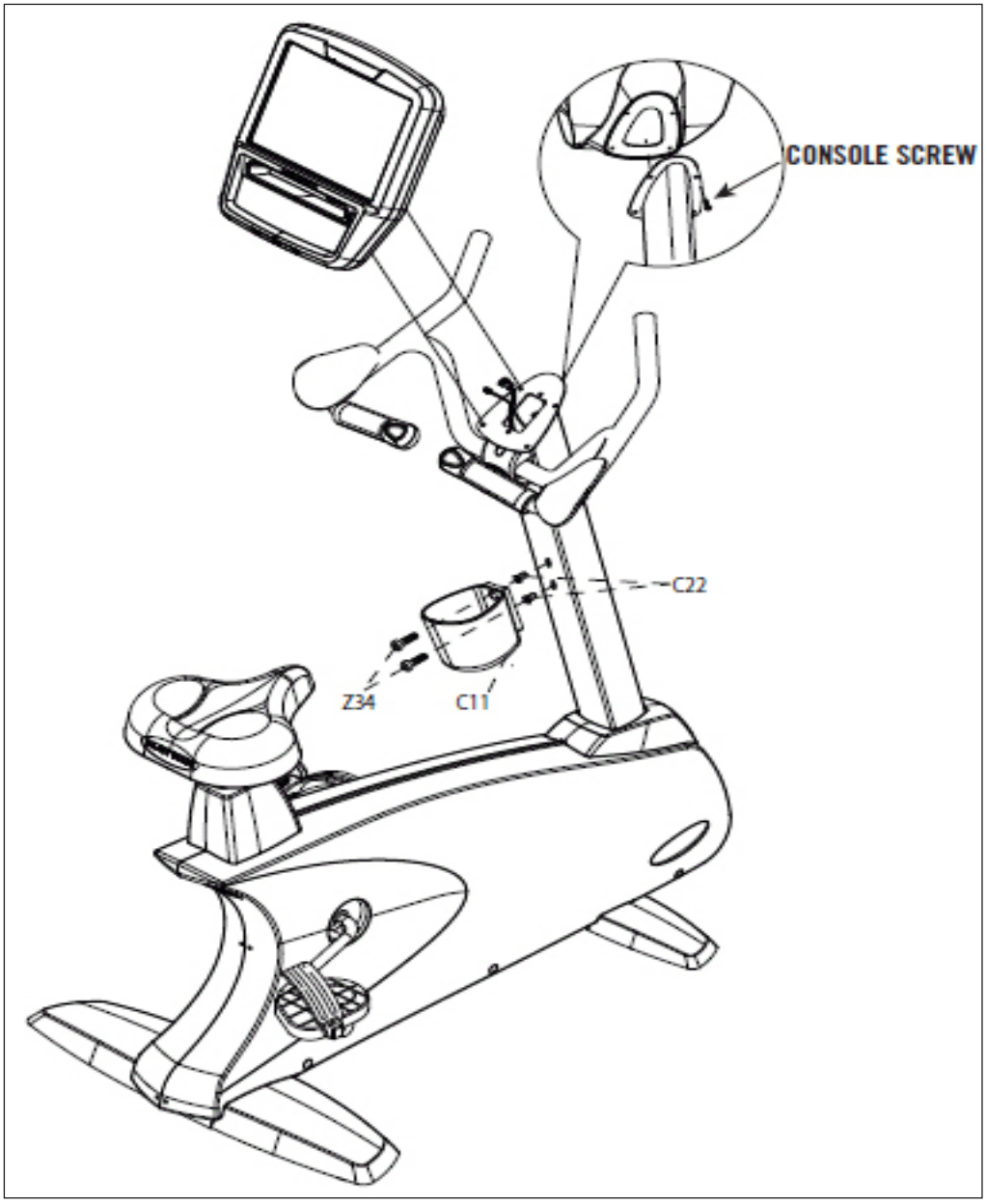


STEP 4



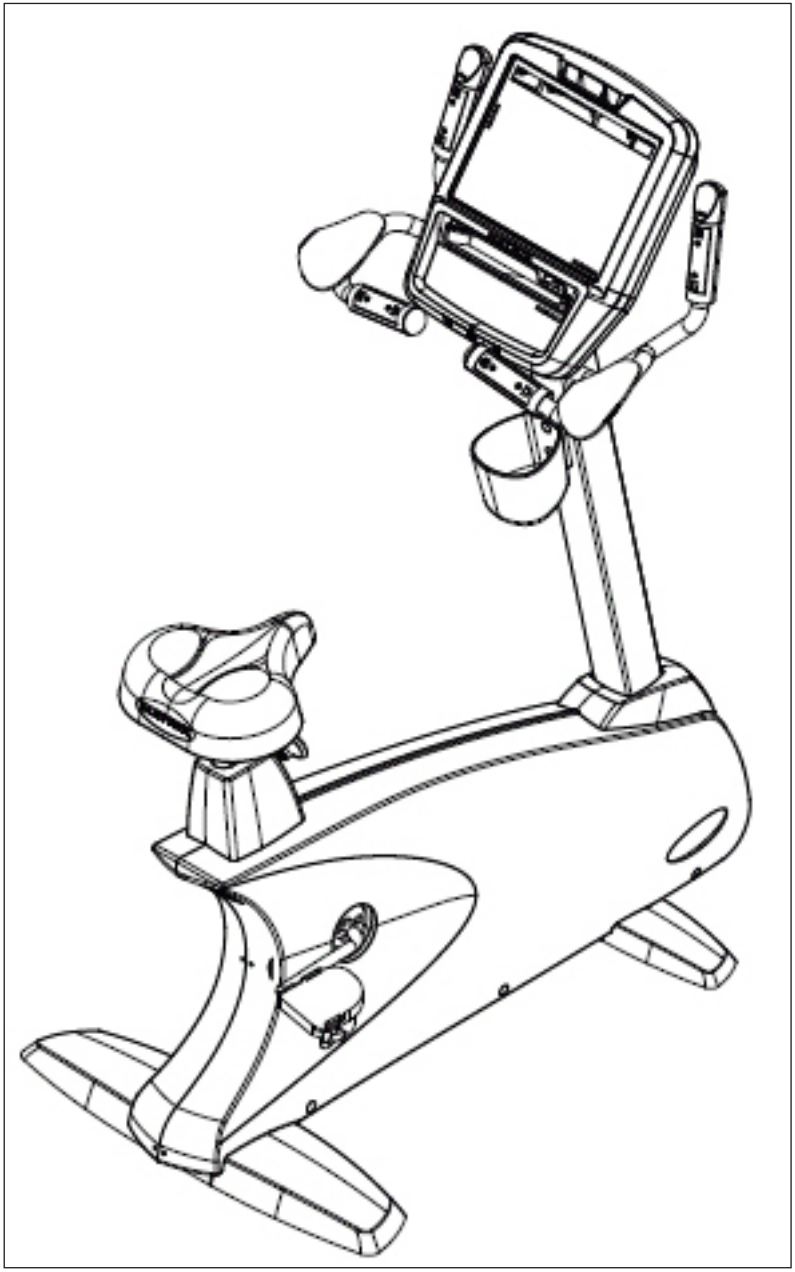
10.3 ASSEMBLY INSTRUCTIONS - CONTINUED

STEP 5



10.3 ASSEMBLY INSTRUCTIONS - CONTINUED

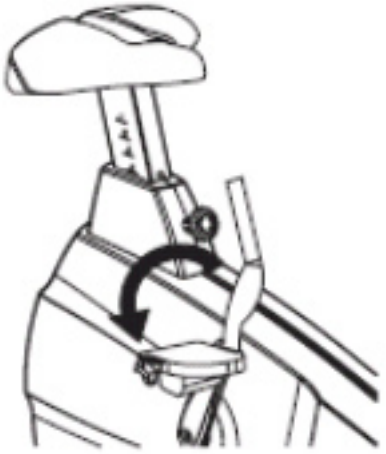
FINAL ASSEMBLY



10.4 ADJUSTING THE PEDAL STRAPS AND SEAT

ADJUSTING THE PEDAL STRAPS

The straps are designed to fit your individual foot size and should be adjusted tight enough to keep your foot from slipping. The pedals include spring loaded clips for easy adjustment. To tighten the strap, pull down the open end of the strap. To loosen the strap, push down on the top of the clip and pull the strap up. Release the clip to lock the strap in place.

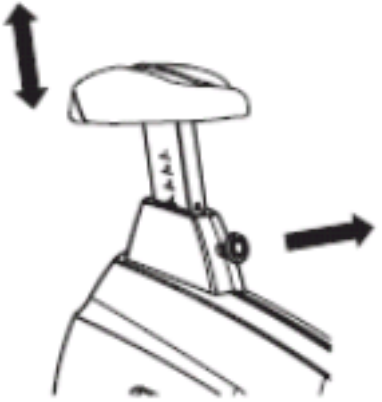


ADJUSTING THE U7xe-01 SEAT

To determine whether or not the seat requires adjustment, sit on it and place your feet on the pedals. The user's knees should bend slightly when the pedal is at the lowest point of its rotation. It should be possible to pedal without locking the knees or shifting in the seat. The Matrix U7xe-01 Bike features a vertical ratchet seat adjustment system, which makes it easy and safe to change the height of the seat quickly.

To raise the seat, pull the seat upward to the desired height, and let it lock into place. Test and re-adjust the seat height as necessary.

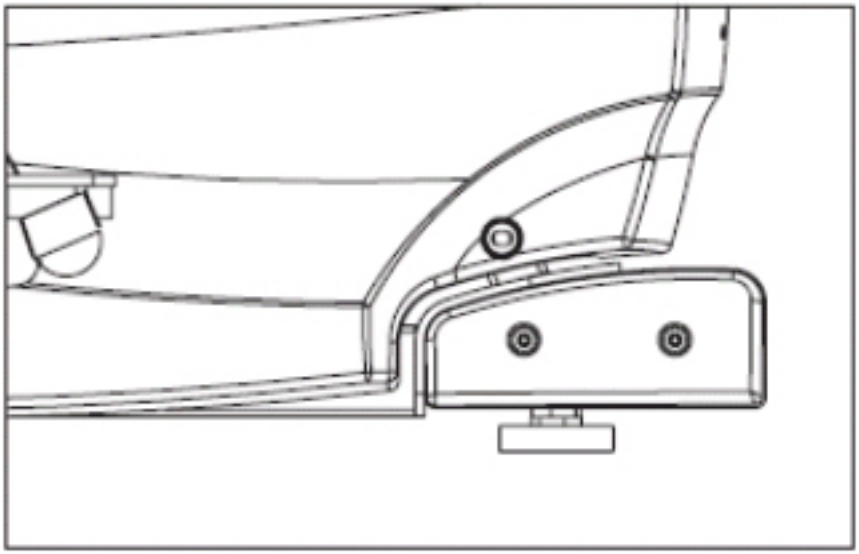
To lower the seat, first get off the bike. Holding the seat, pull out the yellow seat post knob. Let the seat slide down to the desired height and release the yellow seat post knob. Test and re-adjust the seat height as necessary.



10.5 LEVELING THE BIKE

STABILIZING THE MATRIX U7XE-01 BIKE

After positioning the bike in its intended location, check its stability by attempting to shake it side to side. Shaking or wobbling indicates that your bike needs to be leveled. Determine which leveler is not resting completely on the floor. Loosen the nut with one hand to allow the leveler to rotate. Rotate the left or right leveler, and repeat the adjustment as necessary until the bike is stable. Lock the adjustment by tightening the nut against the rear foot support.



10.6 PROGRAMMING THE TV

1) Press ENTER, 1, 0, 0, 1, ENTER on the number keypad and Manager Mode will appear on the display.
2) Press TV on the display (Figure A).
3) Press Setup on the display and a TV will appear in the top right corner (Figure B).
4) Press the - key on the number keypad and a Menu will appear on the TV (Figure C).
5) Use the volume keys to move horizontally in the Menu and the channel keys to move up or down. NOTE: You must press buttons quickly in the Menu or it will minimize within 5 seconds.
6) Move the cursor over to Channel on the top right of the Menu (Figure D), and go down to CHANNEL SCAN, use the volume button to select it (Figure E).
7) Move the cursor down to START TO SCAN and use the volume button to select it (Figure F).
8) If the channels are now coming in clearly, press the HOME key to return to normal operation (Figure G).
9) If the channels still are not coming in, or are showing in black and white, return to CHANNEL SCAN, and then change the CABLE SYSTEM to match your incoming cable frequency (Figure H). Reselect START TO SCAN once this has been changed.
10) If the channels are still not coming in clearly, refer to the TV Troubleshooting in Section 8.11.

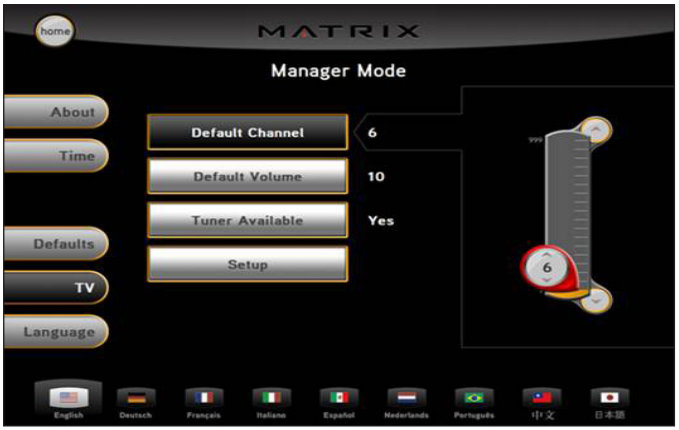


FIGURE A

FIGURE B

FIGURE C

FIGURE D

10.6 PROGRAMMING THE TV - CONTINUED

FIGURE E

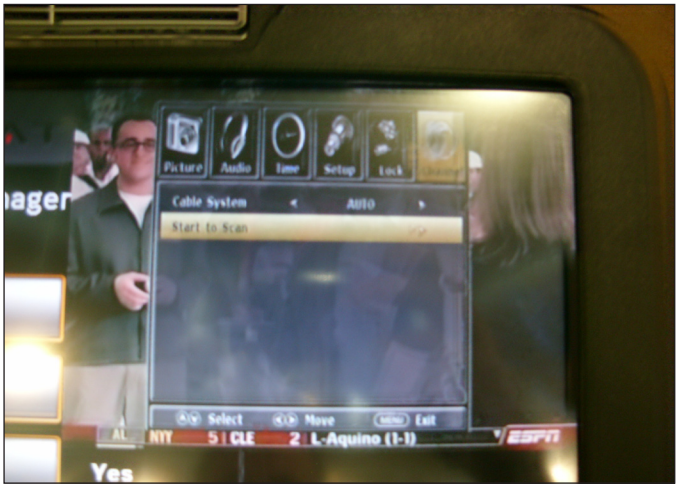


FIGURE F

FIGURE G

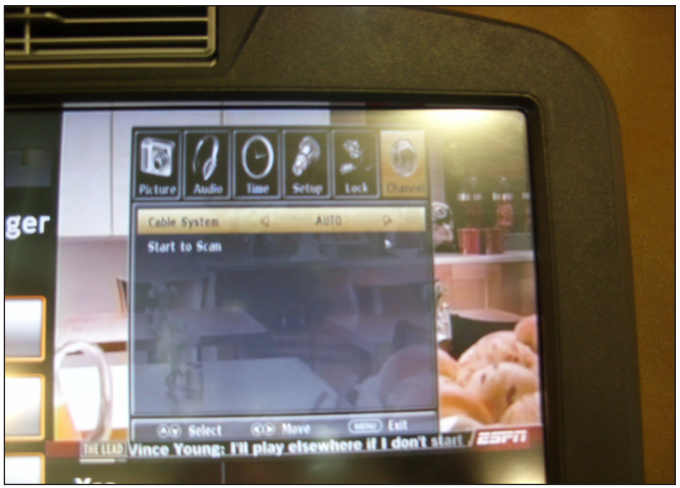


FIGURE H

CHAPTER 11: SOFTWARE UPGRADE GUIDE

11.1 SOFTWARE UPGRADE INSTRUCTIONS

1) Copy three software files (7xe deploy.cab, io.txt, and update.config) onto a USB drive.
2) Turn on the power to the bike, wait until the standby picture has been cleared (Figure A).
3) Insert the USB drive into the Reprogram Port in the back of the console back cover (Figure B).
4) The upgrade procedure will run automatically (Figure C).
5) When the update is complete, the display will prompt to remove the USB drive (Figure D).
6) Power should cycle automatically once the USB drive is removed. Once the unit powers back up, test for function as outlined in Section 9.20.

FIGURE A

FIGURE B

Matrix Fitness Update Manager
Updating application. DO NOT power down the equipment during this update. Please allow several minutes for the update to complete.

FIGURE C

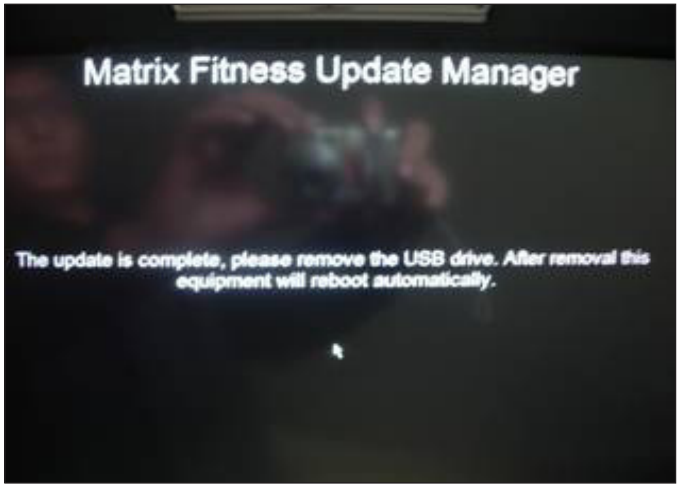

Matrix Fitness Update Manager
The update is complete, please remove the USB drive. After removal this equipment will reboot automatically.

FIGURE D

NOTES

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